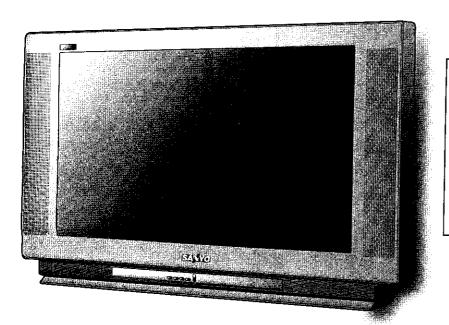


FILE NO.

# **SERVICE MANUAL**

# Remote Control Digital Color Television

# HT30744 (U.S.A.) (CANADA) ORIGINAL VERSION



Chassis No. 30744-00

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

> If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

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# HT30744, H3GLM, PRODUCT CODE 111370290

## **Specifications**

Specifications
Power Rating 120V, 60Hz
140W (Avg), 2.5A (Max)
Antenna Input Impedance 75Ω
UHF/VHF/CATV
Digital
Receiving Channel 2 - 13 (VHF),
14 - 69 (UHF),
01, 14-94, 95-125 (CATV)
1 - 99 (Digital)
Remote Ready 52 Key Remote Control
Sound Output 5.0 W/CH
Intermediate Frequency
Picture IF Carrier 45.75MHz
Sound IF Carrier 41.25MHz
Color Sub Carrier 42.17MHz
Picture Tube W76QEN693X100
Semiconductors
integrated Circuits40
Transistors89
Except within Tuner, RC Pre-Amp. & Digital Module
Cabinet Dimensions
Width908 mm
Height
Depth553 mm

**REFERENCE No. SM780094** 

# SAFETY INSTRUCTIONS

### SAFETY PRECAUTIONS

WARNING: The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

The following precautions must be observed:

- An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
- 2. Comply with all caution and safety-related notes provided on the side of the cabinet, inside the cabinet, on the chassis, and the picture tube.
- When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.

DO NOT OPERATE THIS TELEVISION RECEIVER WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

# **ANTENNA COLD CHECK**

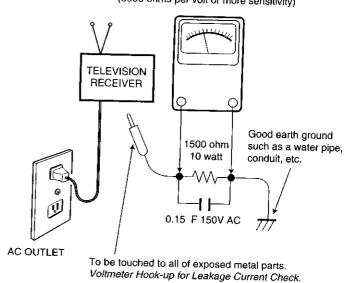
Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

# **LEAKAGE CURRENT CHECK**

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 µF 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

READING SHOULD NOT EXCEED 750 mV. AC VOLTMETER (5000 ohms per volt or more sensitivity)



## X-RADIATION PRECAUTION

The primary source of X-RADIATION in solid-state receivers is the picture tube. The picture tube is specially constructed to limit X-Ray emission. For continued X-RADIATION protection, the replacement tube must be the same type as the original (including the suffix letter in the part numbers). Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specific limits. Refer to the X-RADIATION WARNING NOTE on the CHASSIS SCHEMATIC in this service manual for specific high voltage limits. If the high voltage exceeds specified limits, check the components specified on the chassis schematic diagram and take the necessary corrective action. Carefully follow the instructions for the +B Voltage Check and the High Voltage Check to maintain the high voltage within the specified limits.

# HIGH VOLTAGE HOLD-DOWN TEST

To prevent X-RADIATION from the picture tube due to excessive high voltage, a HOLD-DOWN circuit is provided in the high voltage circuit. Every time the receiver is serviced, the high voltage HOLD-DOWN circuit must be tested for proper operation. Refer to the HIGH VOLTAGE HOLD-DOWN TEST in service adjustments.

### **PRODUCT SAFETY NOTICE**

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a star  $(\star)$  in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.

# **SERVICE ADJUSTMENTS**

### **GENERAL**

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

# **ON-SCREEN SERVICE MENU SYSTEM**

#### 1. Enter the Service Menu:

 While pressing the -VOLUME key on the front control panel, reconnect the AC power cord. The Service Menu Display will now appear. The remote can now be used to make adjustments.
 See Figure 1.

### 2. Service Adjustments:

- Press the Channel ▲ or ▼ key to select the desired service menu you want to adjust. See page 5 for On-screen Service Menu.
- Use the Volume + or key or numeric keys to adjust the data.
   (For Sub Address see below)

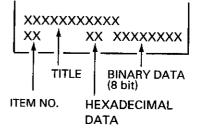


Figure 1. Service Menu Display

### 3. Exit from the Service Menu:

Press the MENU key to turn off the Service Menu display.

### ADJUSTMENT FOR SUB ITEM (ADDRESS)

Some service data have Sub - Addresses. Use the numeric keys (from 0 to 7), to adjust the Sub - item data.

### **ADJUST DATA OF SUB-TITLE**

1. Find the title and its bit of binary data from Table 1 (On-Screen Service Menu).

(b7) (b6) (b5) (b4) (b3) (b2) (b1) (b0)

O 1 O 1 O 1 1 O

BINARY DATA (8 bit)

- 2. Enter the service menu (see above) and select the item number needed with the Channel ▲ or ▼ key.
- 3. With the numeric key (from 0 to 7), change the bit data. Each time the numeric key is pressed, the data changes from 0 to 1 alternately. For example, to change the data of bit 5, press the "5" key.

NOTE: The ▲ and ▼ symbols used in the following service adjustments refer to the Channel up and down keys not the Menu keys.

# IC802 (EEPROM) REPLACEMENT

When IC802 (EEPROM) is replaced, IC801 (CPU) will automatically write the initial reference data into IC802 for basic TV operation. However, the bus data should be checked and some bus data should be set up before attempting the service adjustments. (See Table 1. on pages 5 – 11 for detailed bus data information.)

### INITIAL BUS DATA SETUP

Note: When IC802 (EEPROM) is replaced, change the following initial reference data for proper TV operation before attempting service adjustments.

- 1. Disconnect the AC power cord (AC 120V line).
- 2. While pressing the MENU key, reconnect the AC power cord. The Service Menu display will now appear.
- 3. Select NO. 102 SHU2PO (Sub Hue / Pre/Over Shoot) with ▲ or ▼ key. Adjust the data with number keys for 1F.
- 4. Select NO. 103 SLC2CTI (Sub Color / CTI Level) with ▲ or ▼ key. Adjust the data with number keys for 21.
- 5. Select NO. 105 SSH2LTI (Sub Sharp / LTI Level) with ▲ or ▼ key. Adjust the data with number keys for 89.
- 6. Select NO. 106 RD2PTL (R Drive / P Limit Level) with ▲ or ▼ key. Adjust the data with number keys for 70.
- 7. Select NO. 108 BD2CTIM1 (B Drive / CTI Mode) with ▲ or ▼ key. Adjust the data with number keys for 78.
- 8. Select NO. 109 SBR2GAM (Sub Bright / Gamma) with ▲ or ▼ key. Adjust the data with number keys for 2A.
- 9. Select NO. 10A RCT2LTIM1 (R Cutoff / LTI Mode) with ▲ or ▼ key. Adjust the data with number keys for 88.
- 9. Select NO. 10B GCT2DPL (G Cutoff / DPIC Level) with ▲ or ▼ key. Adjust the data with number keys for 5D.
- 10. Select NO. 10C BCT2DCT (B Cutoff / DC Transit) with ▲ or ▼ key. Adjust the data with number keys for 75.
- 11. Select NO. 10F CBOF2AW1AB (CB Offset / Aging W / Aging B) with ▲ or ▼ key. Adjust the data with number keys for 94.
- 12. Select NO. 110 CROF2SYS (CR Offset / System ) with ▲ or ▼ key. Adjust the data with number keys for B8.
- 13. Select NO. 114 VML4FLC2FLS (VM Level / FLCOL / FLCOL Switch) with ▲ or ▼ key. Adjust the data with number keys for F2.
- 14. Select NO. 116 VS (V Size ) with ▲ or ▼ key. Adjust the data with number keys for 86.

# **INITIAL BUS DATA SETUP (Cont.)**

- 15. Select NO. 117 VPS (V Position) with ▲ or ▼ key. Adjust the data with number keys for 74.
- 16. Select NO. 118 VLI4SCR (V Lin / s Correction) with ▲ or ▼ key. Adjust the data with number keys for 63.
- 17 Select NO. 119 HSI2UUC (H Size / Up UCP) with ▲ or ▼ key. Adjust the data with number keys for 84.
- 18. Select NO. 11A PAP2LUP (Pin Amp / Lo UCP) with ▲ or ▼ key. Adjust the data with number keys for 6C
- 19. Select NO. 11B UCP 2UUG (Up CPin / Up UCG) with ▲ or ▼ key. Adjust the data with number keys for 80. 20. Select NO. 11C LCP2LUG (Up CPin / Lo UCG) with ▲ or ▼ key. Adjust the data with number keys 78.
- 21. Select NO. 11D PPH2UPO1VBS (Pin Phase / Uc Pol / V Blk Sw) with ▲ or ▼ key. Adjust the data with number keys 6D.
- 22. Select NO. 11E HPO2CSH1NiN (H Position / CLP Shift / Non Inter) with ▲ or ▼ key. Adjust the data with number keys for 79.
- 23. Select NO. 11F ABO2RAM (AFC Bow / RF AFC Mode) with ▲ or ▼ key. Adjust the data with number keys for 7D.
- 24. Select NO. 120 AAN2AGS1 (AFC Angle / AGC Sw) with ▲ or ▼ key. Adjust the data with number keys for 88.
- 25. Select NO. 121 LBK2CPH (Left Blk / CLP Phase) with ▲ or ▼ key. Adjust the data with number keys for BC.
- 26. Select NO. 122 RBK2CGA1HSW (R Blk / CLP Gate / H Blk Sw) with ▲ or ▼ key. Adjust the data with number keys for 9D.
- 27. Select NO. 126 VCP4HCP (V Comp / H Comp) with ▲ or ▼ key. Adjust the data with number keys for 89.
- 28. Select NO. 136 RF-HUE (RF Tint) with ▲ or ▼ key. Adjust the data with number keys for 00.
- 29. Select NO. 137 RF-COL (RF Color) with ▲ or ▼ key. Adjust the data with number keys for 00.
- 30. Select NO. 157 RF-SHP (RF Sharpness) with ▲ or ▼ key. Adjust the data with number keys for FE.
- 31. Select NO. 158 41-SHP (480I Sharpness) with ▲ or ▼ key. Adjust the data with number keys for FE.
- 32. Select NO. 159 4P-SHP (480P Sharpness) with ▲ or ▼ key. Adjust the data with number keys for FE.
- 33. Select NO. 15A 1I-SHP (1080I Sharpness) with ▲ or ▼ key. Adjust the data with number keys for FE.
- 34. Select NO. 15B 7P-SHP (720P Sharpness) with ▲ or ▼ key. Adjust the data with number keys for FE.
- 35. Select NO. 15C DIGITAL-SHP (Digital Sharpness) with ▲ or ▼ key. Adjust the data with number keys for FE.
- 36. Select NO. 15E RF-LLV (Rf LTl Level) with ▲ or ▼ key. Adjust the data with number keys for 01.
- 37. Select No. 171 RF-CB (RF CB Offset) with ▲ or ▼ key. Adjust the data with number keys for 01.
- 38. Select No. 172 4I-CB (480I CB Offset) with ▲ or ▼ key. Adjust the data with number keys for 01.
- 39. Select No. 173 4P-CB (480P CB Offset) with ▲ or ▼ key. Adjust the data with number keys for FF.
- 40. Select No. 174 1I-CB (1080I CB Offset) with ▲ or ▼ key. Adjust the data with number keys for FE.
- 41. Select No. 175 7P-CB (720P CB Offset) with ▲ or ▼ key. Adjust the data with number keys for FF.
- 42. Select No. 176 D-CB (Digital CB Offset) with ▲ or ▼ key. Adjust the data with number keys for F8.
- 43. Select No. 178 RF-CR (RF CR Offset) with ▲ or ▼ key. Adjust the data with number keys for FF.
- 44. Select No. 179 4I-CR (480I CR Offset) with ▲ or ▼ key. Adjust the data with number keys for F8.
- 45. Select No. 17A 4P-CR (480P CR Offset) with ▲ or ▼ key. Adjust the data with number keys for F9.
- 46. Select No. 17B 1I-CR (1080I CR Offset) with ▲ or ▼ key. Adjust the data with number keys for F6.
- 47. Select No. 17C 7P-CR (720P CR Offset) with ▲ or ▼ key. Adjust the data with number keys for F6.
- 48. Select No. 17D D-CR (Digital CR Offset) with ▲ or ▼ key. Adjust the data with number keys for F6.
- 49. Select No. 184 D-SYS (Digital System) with ▲ or ▼ key. Adjust the data with number keys for 01.
- 50. Select No. 1D3 CWUBK (Video 1/2 Letter Box Lo Blk) with ▲ or ▼ key. Adjust the data with number keys for 08.
- 51. Select No. 1D4 CWLBK (Video 1/2 Letter Box Up Blk) with ▲ or ▼ key. Adjust the data with number keys for 0B.
- 52. Select No. 1FA 4PWLBK (480P letter Box Lo Blk) with ▲ or ▼ key. Adjust the data with number keys for 0B.
- 53. Select No. 20C 7PWUBK (720P Letter Box Up Blk) with ▲ or ▼ key. Adjust the data with number keys for 08.
- 54. Select No. 20D 7PWLBK (720P letter Box Lo Blk) with ▲ or ▼ key. Adjust the data with number keys for 0B.
- 55. Select No. 21F 1IWUBK (1080I-Letter Box Up Blk) with ▲ or ▼ key. Adjust the data with number keys for 08.
- 56. Select No. 220 1IWLBK (1080I-Letter Box Lo Blk) with ▲ or ▼ key. Adjust the data with number keys for 0B.
- 57. Select No. 22B DVPS (Digital Full V Position) with ▲ or ▼ key. Adjust the data with number keys for 01.
- 58. Select No. 258 PUBK (PAP-On Up Blk) with ▲ or ▼ key. Adjust the data with number keys for 08.
- 59. Select No. 259 PLBK (PAP-On Lo Blk) with ▲ or ▼ key. Adjust the data with number keys for 0B.
- 60. Select No. 26B DWUBK (Digital Letter Box Up Blk) with ▲ or ▼ key. Adjust the data with number keys for 08.
- 61. Select No. 26C DWLBK (Digital Letter Box Lo Blk) with ▲ or ▼ key. Adjust the data with number keys for 0B.
- 62. Select No. 043 SHU4SCL (Sub Hue / Sub Color) with ▲ or ▼ key. Adjust the data with number keys for 72.
- 63. Select No. 045 YD3SF2F01CM2 (Y Drive / SHP-F0 / FSC Out / CD Mode) with ▲ or ▼ key. Adjust the data with number keys for 32.
- 64. Select No. 053 HP2V11V2 (HP / V1/ V2) with ▲ or ▼ key. Adjust the data with number keys for 7B.
- 65. Select No. 088 OP2 (Option 2) with ▲ or ▼ key. Adjust the data with number keys for 12.
- 66. Select No. 08C AKB (AKB Detect Time) with ▲ or ▼ key. Adjust the data with number keys for 10.
- 67. Press the MENU key to turn off the Service Menu display.

# **Table 1. ON-SCREEN SERVICE MENU**

When IC802 (EEPROM) is replaced, check the bus data to confirm they are the same as below. The shaded menu should be checked and be set up or readjusted according to the procedures described in the following pages. Initial Setup Data marked with an \* should be changed from Initial Reference Data. (See pages 3 and 4 for Initial Bus Data Setup.)

No.	1	INITIAL REFERENCE	Т	INITIAL SETUP	and 4 for Initial Bus Data Setup.)
<u> </u>	TITLE	DATA HEX	DATA HEX	DATA BINARY	FUNCTION
100	PRGBON4DL2ES1SF	FD	FD	11111101	PIC+R+G+B On(7~4), D COL(3~2), ES1(1):0(fixed), SF(0)
101 102	BLKBTM SHU2PQ	00	00	00000000	BLK_BTM(1~0)
102		400年 年23 前年间	144	00011111	SUB HUE (7-92), PAE/OVER(1-0)
104	SCL2CTI	30		-00100001	SUB COLORIZ-2), CH_LEVH-0
105	SSH2LTI	<b>↓</b>	↓ ↓	<b>.</b>	NOT USED
196	RD2PTL	81	.89*	10001001	SUB SHARPMESS(7-2):LTT_LEV(1-20)
107	GD2ABLM	7C	70	01110000	A DRIVEIZWZI, PLIMIT LEVITUON OF THE STATE O
108	BD2CTIM1	7F 7C	71	<u>autitut</u>	
109	SBR2GAM.	36	70† 2A*	01111000	B_DRIVE(7±2)_CTLIMODE(1)
10A	ACT2LTIM1	76 G G	88*	00101010	SUB BRIGHT(742), GAMMAIT OF THE TOTAL CONTROL
108	GCT2DPL	THE PERSON	5D*	10001000 01011101	A COTOFFORD LTL MODERO
10C	BCT2DCT	7F	75*	01110101	GOUTOFRITZE OPIC_LEV(120)
100	SC04LR2L	57	57	01010111	B_GUTOFF(7-2); DC_TRANT-0E
10E	PABL4ABLT	F1	F1	11110001	SUB_CONT(7-4)_LRGB2_LEV(8-0)
10F	CB0F2AW1AB	90	94*	10010100	P_ABL(7~4), ABL_TH(3~0)
110	CROF2SYS	B0	B8*	10111000	CB_OFFSET(7~2), AGING_W(1), AGING_B(0)
111	YOF4VD2VF	02	02	00000010	CR_OFFSET(7~2), SYSTEM(1~0)
112	RYR4RYB	88	88	10001000	Y_OFFSET(7~4), VM_DLY(3~2), VM_FO(1~0) R-Y/R(7~4), R-Y/B(3~0)
113	GYR4GYP	88	88	10001000	G-Y/R(7~4),G-Y/B(3~0)
114	VML4FLC2FLS	F8	F2*	11110010	VM_LEV(7~4), FLCOL(3~2), FLCOL SW(1)
115	UBK4LBK	00	00	00000000	UP_BLK(7~4), LO_BLK(3~0)
116	v\$	BE	86*	10000110	V_SIZE(7-2)_bit(1-bit(0.0-int-be)-nxad)
2117	errores de la la compa	900 702 <b>78</b> 2500 0	erin a <b>ya</b> yanını	01110100	V POSITION (7-2)
118	VLI4SCR	76	63*	01100011	V_LIN(7~4), S_CORRECTION(3~0)
119	HSI2UUC	61	84*	10000100	H_SIZE(7-8):U(C-UGP(140) - H-100 - H-100
11A	PAPZLUP	65	66.	91101100	PIN AND THE BUTCH OF THE PARTY
118	UCPZUUG		ali de <b>BOT</b> in des	10000000	LE CPINIZATOUPSICABINIVIDES TO PORT A MARKET
.11C	LCP2LUG	99	781	611111000	CO. CONTACTO DECOMPOSE E ESTADA EN ESTADA ENTADA EN ESTADA EN ESTA
110	PPH2UPO1VBS	83	6D*	efforto	EN PRASECANAJO FOLLII, VELK SMID
.t1€	HP02CSH1NIN	9C	79*	01011001	HEPOSITION OF THE SHIFT OF NOTHING RUD.
117	ABO2RAM	85	7D****	01111101	AFC BOWITCH AF AFCLIMODE(I/O):
120	AAN2AGS1	84	86†	10001000	AFC ANGLEU EI AGC SMIT
121	LBK2CPH	E0	BC*	10111100	LEFT_BLK(7-2), CLP_PHASE(1-0)
122	RBK2CGA1HSW	71	9D*	10011101	RIGHT_BLK(7-2), CLP_GATE(1), HBLK_SW(0)
123	VAS2JSW	00	00	00000000	V_ASPECT(7-2), JMP_SW (0)
125	VSR UVL4LVL	7D	7D	01111101	V_SCROLL(7-2), b1 : 0, b0 : 1 (b1 / b0: fixed)
126	VCP4HCP	00	00	00000000	UP_VLIN(7-4), LO_VLIN(3-0)
127	ATI3HVS2BOF1AOF	49	89*	10001001	V_COMP(7-4), H_COMP(3-0)
128	128	70	70	01110000	AKB-TIM(7-3), HVBTM_SW(2),BLK OFF(1), AKB OFF(0)
129	RF-SF0	01	00	00000000	PRELIMINARY
12A	4I-SF0	01	01	00000001	RF SHP_F0(0)
12B	4P-SF0	01	01 01	00000001	4801 SHP_F0(0)
12C	1I-SF0	01	01	00000001	480P SHP_F0(0)
12D	7P-SF0	01	01	00000001	1080F SHP_F0(0)
12E	D-SF0	01	01	00000001	720P SHP_F0(0)
12F	RF-CON	00	00	00000001	DIGITAL SHP_F0(0)
130	4I-CON	00	00	00000000	RF CONTRAST
131	4P-CON	00	00	00000000	4801 CONTRAST 480P CONTRAST
<b></b>	<u> </u>			0000000	TOOL CONTRACT

Table 1. ON-SCREEN SERVICE MENU (Continued)

Nie	TITLE	INITIAL REFERENCE	INITIAL SETUP	INITIAL CETUD	
No.	TITLE	DATA HEX	DATA HEX	INITIAL SETUP DATA BINARY	
132	1I-CON	00	00	00000000	1125I CONTRAST
133	7P-CON	00	00	00000000	720P CONTRAST
134	D-CON	- 00	00	00000000	DIGITAL CONTRAST
135	W-CON	00	00	00000000	LETTER BOX CONTRAST
136	RF-HUE	FC	00*	00000000	RF TINT
137	4I-HUE	00	00	00000000	4801 TINT
138	4P-HUE	00	00	00000000	480P TINT
139	1I-HUE	00	00	00000000	1080I TINT
13A	7P-HUE	00	00	00000000	720P TINT
13B	D-HUE	00	00	00000000	DIGITAL TINT
13C	W-HUE	FF	FF	11111111	LETTER BOX TINT
13D	RF-PRE	02	02	00000010	RF PRE/OVER(1-0)
13E	4I-PRE	03	03	00000011	480I PRE/OVER(1-0)
13F	4P-PRE	03	03	00000011	480P PRE/OVER(1-0)
140	1I-PRE	03	03	00000011	1080I_PRE/OVER(1-0)
141	7P-PRE	03	03	00000011	720P PRE/OVER(1-0)
142	D-PRE	03	03	00000011	DIGITAL PRE/OVER(1-0)
143	RF-COL	01	00*	00000000	RF COLOR
144	4I-COL	04	04	00000100	4801 COLOR
145	4P-COL	05	05	00000101	480P COLOR
146	1I-COL	04	04	00000100	1080I COLOR
147	7P-COL	04	04	00000100	720P COLOR
148	D-COL	00	00	00000000	DIGITAL COLOR
149	W-COL	00	00	00000000	LETTER BOX COLOR
14A	RF-CLV	01	01	00000001	
14B	4I-CLV	01	01	00000001	RF CTI_LEV(1-0) 480I CTI_LEV(1-0)
14C	4P-CLV	01	01	0000001	480P CTI_LEV(1-0)
14D	1I-CLV	01	01	0000001	
14E	7P-CLV	01	01	00000001	1080I CTI_LEV(1-0)
14F	D-CLV	01	01	00000001	720P CTI_LEV(1-0)
150	RF-BRI	00	00	00000000	DIGITAL CTI_LEV(1-0)  BE BRIGHT
151	4i-BRI	00	00	00000000	
152	4P-BRI	00	00	00000000	
153	1I-BRI	00			480P BRIGHT
154	7P-BRI	00	00	00000000	1080I BRIGHT
155	D-BRI	00	00	00000000	720P BRIGHT
156	W-BRI	00	00	00000000	DIGITAL BRIGHT
157	RF-SHP	00	FE*	00000000	LETTER BOX BRIGHT
158	4I-SHP	00	FE*	11111110	RF SHARPNESS
159	4P-SHP	00	FE*	11111110	4801 SHARPNESS
15A	1I-SHP	00	FE*	11111110	480P SHARPNESS
15B	7P-SHP	00	FE*	11111110	1080I SHARPNESS
15C	DIGITAL-SHP	00	FE*	11111110	720P SHARPNESS
15D	W-SHP	00	00	00000000	DIGITAL SHARPNESS
15E	RF-LLV	00	01*	00000000	LETTER BOX SHARPNESS
15F	4i-LLV	01		00000001	RF LTI_LEV(1-0)
160	4P-LLV		01	00000001	480I_LTI_LEV(1-0)
161	1I-LLV	01	01	00000001	480P LTI_LEV(1-0)
162	7P-LLV	01	01	00000001	1080I LTI_LEV(1-0)
163	D-LLV	01	01	00000001	720P LTI_LEV(1-0)
	Ľ-LLV	01	01	00000001	DIGITAL LTI_LEV(1-0)

No	TITLE	INITIAL REFERENCE	INITIAL SETUP	INITIAL SETUR	
164		DATA HEX	DATA HEX	DATA BINAR	Y FUNCTION
165		00	00	00000000	RF CTI_MODE(0)
166		00	00	00000000	480I CTI_MODE(0)
167		00	00	00000000	480P CTI_MODE(0)
168		00	00	00000000	1080I CTI_MODE(0)
169		00	00	00000000	720P CTI_MODE(0)
164		00	00	00000000	DIGITAL CTI_MODE(0)
16B		00	02	00000010	1125I ÇfAMMA(1-0)
160		00	00	00000000	RF LTI_MODE(0)
16D		00	00	00000000	480I LTI_MODE(0)
16E	1I-LMD	00	00	00000000	480P LTI_MODE(0)
16F	7P-LMD	00	00	00000000	10801 LTI_MODE(0)
170	D-LMD	00	00	00000000	720P LTI_MODE(0)
171	RF-CB	00	01*	00000001	DIGITAL LTI_MODE(0)
172	4I-CB	00	01*	00000001	RF CB_OFFSET
173	4P-CB	FO	FF*	11111111	480L CB_OFFSET
174	1I-CB	FO	FE*	11111110	480P CB_OFFSET
175	7P-CB	FO	FF*	11111111	1080/ CB_OFFSET
176	D-CB	FO	F8*	11111000	720P CB_OFFSET
177	W-CB	00	00	00000000	DIGITAL CB_OFFSET  000000 LETTER BOX CR_OFFSET
178	RF-CR	00	FE*	11111110	000000 LETTER BOX CB_OFFSET  RF CR_OFFSET
179	4I-CR	00	FB*	11111011	
17A	4P-CR	F0	F9*	11111001	4801 CR_OFFSET
17B	1I-CR	FO	F6*	11110110	480P CR_OFFSET
17C	7P-CR	00	F5*	11110101	1080I CR_OFFSET
170	D-CR	00	F6*	11110110	720P CR_OFFSET
17E	W-CR	00	00	00000000	DIGITAL CR_OFFSET
17F	RF-SYS	00	00	00000000	LETTER BOX CR_OFFSET  RF SYSTEM(1-0)
180	4I-SYS	00	00	00000000	480I SYSTEM(1-0)
181	4P-SYS	00	00	00000000	480P SYSTEM(1-0)
182	1I-SYS	01	01	0000001	1080I SYSTEM(1-0)
183	7P-SYS	01	01	0000001	720P SYSTEM(1-0)
184	D-SYS	00	01*	00000001	DIGITAL SYSTEM(1-0)
185	RF-VMD	00	00	00000000	RF VM_DLY(1-0)
186	4I-VMD	00	00	00000000	480I VM_DLY(1-0)
187	4P-VMD	00	00	00000000	480P VM_DLY(1-0)
188	1I-VMD	00	00	00000000	1080I VM_DLY(1-0)
189	7P-VMD	00	00	00000000	720P VM_DLY(1-0)
18A	D-VMD	00	00	00000000	DIGITAL VM_DLY(1-0)
18B	RF-VMF	02	02	00000010	RF VM_F0(1-0)
18C	4I-VMF	02	02	00000010	480I VM_F0(1-0)
18D	4P-VMF	02	02	00000010	480P VM_F0(1-0)
18E 18F	1I-VMF	02	02	00000010	1080I VM_F0(1-0)
	7P-VMF	02	02	00000010	720P VM_F0
190	D-VMF	02	02	00000010	DIGITAL VM_F0
191	W-VMF	02	02	00000010	LETTER BOX VM_F0
192 193	RF-RYR	08	08	00001000	RF RYR(3-0)
193	4I-RYR	08	08	00001000	480! RYR(3-0)
·	4P-RYR	08	08	00001000	480P RYR(3-0)
195 196	1I-RYR	08	80	00001000	1080I RYR(3-0)
196	7P-RYR	08	08	00001000	720P RYR(3-0)
198	D-RYR	08	08	00001000	DIGITAL RYR(3-0)
198	RF-RYB	08	08	00001000	RF RYB(3-0)
	4I-RYB	80	08	00001000	4801 RYB(3-0)

Table 1. ON-SCREEN SERVICE MENU (Continued)

	<u> </u>	INITIAL DESCRIPTION	T		
No.	TITLE	INITIAL REFERENCE DATA HEX	INITIAL SETUP DATA HEX	INITIAL SETUP DATA BINARY	FUNCTION
19A	<del></del>	08	08	00001000	480P RYB(3-0)
198	1I-RYB	08	08	00001000	1080I RYB(3-0)
19C	7P-RYB	08	08	00001000	720P RYB(3-0)
19D	D-RYB	08	08	00001000	DIGITAL RYB(3-0)
19E	RF-GYR	08	08	00001000	RF GYR(3-0)
19F	4I-GYR	08	08	00001000	480I GYR(3-0)
1A0	4P-GYR	08	08	00001000	480P GYR(3-0)
1A1	1I-GYR	08	08	00001000	1080I GYR(3-0)
1A2	7P-GYR	08	08	00001000	720P GYR(3-0)
1A3	D-GYR	08	08	00001000	DIGITAL GYR(3-0)
1A4	RF-GYB	08	08	00001000	RF GYB(3-0)
1A5	4I-GYB	08	08	00001000	480I GYB(3-0)
1A6	4P-GYB	08	.08	00001000	480P GYB(3-0)
1A7	11-GYB	08	08	00001000	1080/ GYB(3-0)
1A8	7P-GYB	08	08	00001000	720P GYB(3-0)
1A9	D-GYB	08	08	00001000	DIGITAL GYB(3-0)
1AA	RF-VLV	0F	0F	00001111	RF VM_LEV(3-0)
1AB	4I-VLV	0F	0F	00001111	480I VM_LEV(3-0)
1AC	4P-VLV	0F	0F	00001111	480P VM_LEV(3-0)
1AD	1I-VLV	0F	0F	00001111	1080I VM_LEV(3-0)
1AE	7P-VLV	0F	0F	00001111	720P VM_LEV(3-0)
1AF	D-VLV	0F	0F	00001111	1080/ VM_LEV(3-0)
1B0	W-VLV	00	00	00000000	LETTER BOX VM_LEV(3-0)
181	1B1	00	00	00000000	PRELIMINARY
1B2	1B2	00	00	00000000	PRELIMINARY
1B3	1B3	00	00	00000000	PRELIMINARY
1B4	184	00	00	00000000	PRELIMINARY
1B5	1 <b>B</b> 5	00	00	00000000	PRELIMINARY
1B6	RWUBK	00	00	00000000	RF-LETTER BOX_UP_BLK
1B7	RWLBK	00	00	00000000	RF-LETTER BOX LO_BLK
1B8	RWVS	00	00	0000000	RF-LETTER BOX V_SIZE
1 <b>B</b> 9	RWVPS	00	00	00000000	RF-LETTER BOX_V_POSITION
18A	RWUUC	00	00	00000000	RF-LETTER BOX UP UCP
188	RWPAP	00	00	00000000	RF-LETTER BOX PIN_AMP
1BC	RWLUP	00	00	00000000	RF-LETTER BOX_LO_UCP
1BD	RWUCP	00	00	00000000	RF-LETTER BOX UP_CPIN
1BE	RWUUG	00	00	00000000	RF-LETTER BOX UP UCG
1BF	RWLCP	00	00	00000000	
1C0	RWLUG	00	00	00000000	RF-LETTER BOX_LO_CPIN RF-LETTER BOX_LO_UCG
1C1	RWPPH	00	00	00000000	RF-LETTER BOX PIN_PHASE
1C2	RWVBS	00	00	00000000	
1C3	RWABO	00	00	00000000	RF-LETTER BOX_VBLK_SW
1C4	RWAAN	00	00	00000000	RF-LETTER BOX AFC_BOW
1C5	RWVAS	00	00	00000000	RF-LETTER BOX AFC_ANGLE  RF-LETTER BOX V ASPECT
1C6	RWJSW	00	00	00000000	
1C7	RWVSR	00	00	00000000	RF-LETTER BOX VI SCROUL
1C8	1C8	00	00	00000000	RF-LETTER BOX V_SCROLL
1C9	CFUBK	00	00		RF-LETTER BOX PRELIMINARY
1CA	CFLBK	00	00	00000000	VIDEO1/2-FULL UP_BLK
1CB	CFVS	00		00000000	VIDEO1/2-FULL LO_BKL
1CC	CFVPS	00	00	00000000	VIDEO1/2-FULL V_SIZE
	0. 71 0		00	00000000	VIDEO1/2-FULL V_POSITION

	1		<del></del>		
No		INITIAL REFERENCE DATA HEX	INITIAL SETUR DATA HEX	INITIAL SETUP DATA BINARY	FUNCTION
100		00	00	00000000	VIDEO1/2-FULL H_SIZE
1 C E	<del></del>	00	00	00000000	VIDEO1/2-FULL H_POSITION
1CF	CFLBK	00	00	00000000	VIDEO1/2-FULL L_BLK
1D0	) CFRBK	00	00	00000000	VIDEO1/2-FULL R_BLK
1D1	CFVAS	00	00	00000000	VIDEO1/2-FULL V_ASPECT
1D2	<del></del>	00	00	00000000	VIDEO1/2-FULL V_SCROLL
1D3	CWUBK	09	08*	00001000	VIDEO1/2-LETTER BOX LO_BLK
1D4	CWLBK	0D	0B*	00001011	VIDEO1/2-LETTER BOX LO_BLK
1D5	CWVS	00	00	00000000	VIDEO1/2-LETTER BOX V_SIZE
1D6	CWVPS	00	00	00000000	VIDEO1/2-LETTER BOX V_POSITION
1D7	CWVBS	01	01	00000001	VIDEO1/2-LETTER BOX VBLK_SW
1D8	CWVAS	12	12	00010010	VIDEO1/2-LETTER BOX V_ASPECT
1D9	CWJSW	01	01	00000001	VIDEO1/2-LETTER BOX JMP_SW
1DA	CWVSR	00	00	00000000	VIDEO1/2-LETTER BOX V_SCROLL
1DB	1DB	00	00	00000000	VIDEO1/2-LETTER BOX PRELIMINARY
1DC	4IUBK	00	00	00000000	480-FULL UP_BLK
10D	4ILBK	00	00	00000000	480I-FULL LO_BLK
1DE	4IVS	00	00	00000000	480I-FULL V_SIZE
1DF	4IVPS	00	00	00000000	480I-FULL V_POSITION
1E0	4/HSI	00	00	00000000	480I-FULL H_SIZE
1E1	4IHPO	00	00	0000000	480I-FULL H_POSITION
1E2	4ILBK	00	00	00000000	480I-FULL L_BLK
1E3	4IRBK	00	00	00000000	480I-FULL R_BLK
1E4	4IVAS	00	00	00000000	480I-FULL V_ASPECT
1E5	4IVSR	00	00	00000000	480I-FULL V_ASPECT
1E6	4IWUBK	08	08	00001000	480I-LETTER BOX UP_BLK
1E7	4IWLBK	0B	ОВ	00001010	480I-LETTER BOX LO_BLK
1E8	4IWVS	00	00	00000000	480I-LETTER BOX V_SIZE
1E9	41WVPS	00	00	00000000	480I-LETTER BOX V_POSITION
1EA	4IWVBS	01	01	0000000	1480I-LETTER BOX VBLK_SW
1EB	4IWVAS	12	12	00010010	480I-LETTER BOX V_ASPECT
1EC	4IWJSW	01	01	00000001	480I-LETTER BOX V_ASPECT
1ED	4IWVSR	00	00	00000000	480I-LETTER BOX V_SCROLL
1EE	1EE	00	00	00000000	4801 PRELIMINARY
1EF	4PUBK	00	00	00000000	480P-FULL UP_BLK
1F0	4PLBK	00	00	00000000	480P-FULL LO BLK
1F1	4PVS	00	00	00000000	480P-FULL V_SIZE
1F2	4PVPS	00	00	00000000	480P-FULL V_POSITION
1F3	4PHSI	00	00	00000000	480P-FULL H_SIZE
1F4	4PHPO	00	00	00000000	480P-FULL H_POSITION
1F5	4PLBK	00	00	00000000	480P-FULL L_BLK
1F6	4PRBK	00	00	00000000	480P-FULL R BLK
1F7	4PVAS	00	00	00000000	480P-FULL V_ASPECT
1F8	4PVRS	00	00	00000000	480P-FULL V_SCROLL
1F9	4PWUBK	08	08	00001000	480P-LETTER BOX UP_BLK
1FA	4PWLBK	0D	08*	00001011	480P-LETTER BOX LO_BLK
1FB	4PWVS	00	00	00000000	480P-LETTER BOX LO_BLK
1FC	4PWVPS	00	00	00000000	480P-LETTER BOX V_POSITION
1FD	4PWVBS	01	01	00000001	480P-LETTER BOX VBLK_SW
1FE	4PWVAS	12	12	00010010	480P-LETTER BOX VASPECT
1FF	4PWJSW	01	01	00000001	480P-LETTER BOX V_ASPECT
200	4PWVSR	00	00	00000000	
201	201	00	00	00000000	480P-LETTER BOX V_SCROLL 480P PRELIMINARY
202	7PUBK	00	00	00000000	720P-FULL UP_BLK
		<u>_</u>		3000000	7201-1 OEL UP_BEK

# Table 1. ON-SCREEN SERVICE MENU (Continued)

DATA HEX   DATA HEX   DATA ENTARPY   FUNCTION			INITIAL PERFORMAN		<u> </u>	
204   7PVS		TITLE	INITIAL REFERENCE DATA HEX	INITIAL SETUP DATA HEX	INITIAL SETUP DATA BINARY	FUNCTION
205   7PVPS			00	00	00000000	720P-FULL LO_BLK
200			00	00	00000000	720P-FULL V_SIZE
207   7PHPO		7PVPS	00	00	00000000	720P-FULL V_POSITION
208   7PLBK	206	7PHSI	00	00	00000000	720P-FULL H_SIZE
209   7PRBK	207	7PHPO	00	00	00000000	720P-FULL H_POSITION
20A   7PVAS   00   00   00000000   720P-FULL V_ASPECT	208	7PLBK	00	00	00000000	720P-FULL L_BLK
208	209	7PRBK	00	00	00000000	720P-FULL R_BLK
20C   7PWUBK   09	20A	7PVAS	00	00	00000000	720P-FULL V_ASPECT
20C   7PWUBK   09   08*   00001000   720P-LETTER BOX UP_BLK   20D   7PWLBK   0D   0B*   00001011   720P-LETTER BOX LO_BLK   20E   7PWVS   00   00   00000000   720P-LETTER BOX V_SIZE   20F   7PWVPS   00   00   00000000   720P-LETTER BOX V_SIZE   20D   7PWVBS   01   01   00000001   720P-LETTER BOX V_SIZE   210   00010010   720P-LETTER BOX V_SIZE   211   7PWVBS   12   12   00010010   720P-LETTER BOX V_SEPCT   212   7PWJSW   01   01   00000001   720P-LETTER BOX V_SEPCT   213   7PWVSR   00   00   00000000   720P-LETTER BOX V_SEPCT   214   214   00   00   000000000   720P-LETTER BOX V_SEROLL   215   1IUBK   00   00   00000000   720P-LETTER BOX V_SEROLL   216   1ILBK   00   00   00000000   1080I-FULL UP_BLK   216   1ILBK   00   00   00000000   1080I-FULL US_EE   217   1IVS   00   00   00000000   1080I-FULL V_SIZE   218   1IVPS   00   00   00000000   1080I-FULL V_SIZE   218   1ILBK   00   00   00000000   1080I-FULL US_EE   214   1ILBK   00   00   00000000   1080I-FULL US_EE   215   1ILBK   00   00   00000000   1080I-FULL US_EE   216   1ILBK   00   00   00000000   1080I-FULL US_EE   216   1ILBK   00   00   00000000   1080I-FULL US_EE   217   1IVS   00   00   00000000   1080I-FULL US_EE   218   1ILBK   00   00   00000000   1080I-FULL US_EE   218   1IVSR   00   00   00000000   1080I-FULL US_EE   218   1IVSR   00   00   00000000   1080I-FULL US_EE   220   1IWLBK   09   08*   00001000   1080I-FULL US_EE   220   1IWVSR   00   00   00000000   1080I-FUTER BOX US_EE   221   1IWVS   00   00   00000000   1080I-ETTER BOX US_EE   222   1IWVSR   00   00   000000000   1080I-ETTER BOX US_EE   223   1IWVSR   00   00   000000000   1080I-ETT	208	7PVSR	00	00	00000000	720P-FULL V_SCROLL
20D   7PWLBK   0D   0B*   00001011   720P-LETTER BOX LO_BLK   20E   7PWVS   00   00   00000000   720P-LETTER BOX V_SIZE   20E   7PWVPS   01   01   00000001   720P-LETTER BOX V_POSITION   210   7PWVPS   01   01   00000001   720P-LETTER BOX V_POSITION   211   7PWVAS   12   12   00010010   720P-LETTER BOX V_ASPECT   212   7PWJSW   01   01   00000001   720P-LETTER BOX V_ASPECT   212   7PWJSW   01   01   00000000   720P-LETTER BOX V_ASPECT   213   7PWVSR   00   00   000000000   720P-LETTER BOX V_SCROLL   214   214   00   00   000000000   720P-LETTER BOX V_SCROLL   215   1IUBK   00   00   000000000   1080I-FULL UP_BLK   216   1ILBK   00   00   000000000   1080I-FULL UP_BLK   217   1IVS   00   00   000000000   1080I-FULL U_SIZE   218   1IVPS   00   00   000000000   1080I-FULL V_POSITION   219   1IHSI   00   00   000000000   1080I-FULL V_POSITION   218   1ILBK   00   00   000000000   1080I-FULL U_BLK   216   1ILBK   00   00   000000000   1080I-FULL U_SIZE   218   1ILBK   00   00   000000000   1080I-FULL U_BLK   216   1ILBK   00   00   000000000   1080I-FULL U_SIZE   218   1ILWS   00   00   00000000   1080I-FULL U_SIZE   229   1IWVS   00   00   00000000   1080I-FULL U_SIZE   220   1IWVS   00   00   00000000   1080I-FULL U_SIZE   221   1IWVS   00   00   00000000   1080I-FULL U_SIZE   222   1IWVS   00   00   00000000   1080I-FULL U_SIZE   222   1IWVS   00   00   00000000   1080I-FULL U_SIZE   223   1IWVS   00   00   00000000   1080I-FULL U_SIZE   224   1IWVS   00   00	20C	7PWUBK	09	08*	00001000	
20E   7PWVS   00   00   00000000   720P-LETTER BOX V_SIZE	20D	7PWLBK	0D	OB*	00001011	
20F   7PWVPS   00   00   00000000   720P-LETTER BOX V_POSITION	20E	7PWVS	00	00	00000000	
210   7PWVBS   01   01   00000001   720P-LETTER BOX VBLK_SW	20F	7PWVPS	00	00	00000000	
211   7PWVAS   12   12   00010010   720P-LETTER BOX V_ASPECT     212   7PWJSW   01   01   00000001   720P-LETTER BOX JMP_SW     213   7PWVSR   00   00   00000000   720P-LETTER BOX V_SCROLL     214   214   00   00   00000000   720P-LETTER BOX V_SCROLL     215   11UBK   00   00   00000000   1080I-FULL UP_BLK     216   11LBK   00   00   00000000   1080I-FULL UP_BLK     217   1IVS   00   00   00000000   1080I-FULL V_SIZE     218   1IVPS   00   00   00000000   1080I-FULL V_POSITION     219   11HSI   00   00   00000000   1080I-FULL H_SIZE     21A   11HPO   00   00   00000000   1080I-FULL H_POSITION     21B   11LBK   00   00   00000000   1080I-FULL H_BUS     21C   11RBK   00   00   00000000   1080I-FULL H_BUS     21D   1IVAS   00   00   00000000   1080I-FULL H_BUS     21E   1IVSR   00   00   00000000   1080I-FULL V_SCROLL     21F   1IWUBK   09   08*   00001000   1080I-FULL V_SCROLL     21F   1IWVS   00   00   00000000   1080I-FULL V_SCROLL     220   1IWLBK   0C   0B*   00001011   1080I-LETTER BOX UP_BLK     221   1IWVS   00   00   00000000   1080I-LETTER BOX V_SIZE     222   1IWVPS   00   00   00000000   1080I-LETTER BOX V_SIZE     223   1IWVSS   01   01   00000001   1080I-LETTER BOX V_ASPECT     224   1IWVSS   01   01   00000001   1080I-LETTER BOX V_ASPECT     225   1IWJSW   01   01   00000001   1080I-LETTER BOX V_ASPECT     226   1IWJSW   01   01   00000001   1080I-LETTER BOX V_ASPECT     227   227   00   00   00000000   0100I-LETTER BOX V_SCROLL     228   DUBK   00   00   00000000   0100I-LETTER BOX V_SCROLL     229   11WVSR   00   00   00000000   0100I-LETTER BOX V_SCROLL     220   11WJSR   00   00   00000000   000I-LETTER BOX V_SCROLL     221   11WVSR   00   00   00000000   000I-LETTER BOX V_SCROLL     222   11WVSR   00   00   00000000   000I-LETTER BOX V_SCROLL     223   DUBK   00   00   00000000   00000000   000I-LETTER BOX V_SCROLL     224   11WVSR   00   00   00000000   00000000   000I-LETTER BOX V_SCROLL     225   11WJSR   00   00   000000000   00000000   000I-LETTER BOX V_SCROLL     226   11WJSR   00   00	210	7PWVBS	01	01	00000001	
212   7PWJSW   01   01   00000001   720P-LETTER BOX JMP_SW	211	7PWVAS	12	12	00010010	
213   7PWVSR	212	7PWJSW	01	01	<del></del>	
214	213	7PWVSR	00	00	00000000	
215	214	214	00	00	00000000	
216	215	1IUBK	00	00	**	
217	216	1ILBK	00	00	00000000	· · · · · · · · · · · · · · · · · · ·
218	217	1IVS	00	00		
219	218	1IVPS	00	00	00000000	
21A         1IHPO         00         00         00000000         1080I-FULL H_POSITION           21B         1ILBK         00         00         00000000         1080I-FULL L_BLK           21C         1IRBK         00         00         00000000         1080I-FULL V_ASPECT           21D         1IVAS         00         00         00000000         1080I-FULL V_ASPECT           21E         1IVSR         00         00         00000000         1080I-FULL V_SCROLL           21F         1IWUBK         09         08*         00001000         1080I-LETTER BOX UP_BLK           220         1IWLBK         0C         08*         00001011         1080I-LETTER BOX LO_BLK           221         1IWVS         00         00         00000000         1080I-LETTER BOX V_SIZE           222         1IWVPS         00         00         00000000         1080I-LETTER BOX V_POSITION           223         1IWVBS         01         01         00000000         1080I-LETTER BOX V_ASPECT           224         1IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL <tr< td=""><td>219</td><td>1/HSI</td><td>00</td><td>00</td><td>00000000</td><td></td></tr<>	219	1/HSI	00	00	00000000	
21B         1ILBK         00         00         00000000         1080I-FULL L_BLK           21C         1IRBK         00         00         00000000         1080I-FULL R_BLK           21D         1IVAS         00         00         00000000         1080I-FULL V_ASPECT           21E         1IVSR         00         00         00000000         1080I-FULL V_SCROLL           21F         1IWUBK         09         08*         00001000         1080I-LETTER BOX UP_BLK           220         1IWLBK         0C         0B*         00001011         1080I-LETTER BOX LO_BLK           221         1IWVS         00         0         00000000         1080I-LETTER BOX V_SIZE           222         1IWVPS         00         0         00000000         1080I-LETTER BOX V_POSITION           223         1IWVBS         01         01         00000001         1080I-LETTER BOX V_ASPECT           224         1IWVAS         12         12         00010010         1080I-LETTER BOX JMP_SW           225         1IWVSR         01         01         000000001         1080I-LETTER BOX V_SCROLL           227         227         00         00         000000000         1080I-LETTER BOX V_SCROLL	21A	11HPO	00	00	00000000	
21C         1IRBK         00         00         00000000         1080I-FULL R_BLK           21D         1IVAS         00         00         00000000         1080I-FULL V_ASPECT           21E         1IVSR         00         00         00000000         1080I-FULL V_SCROLL           21F         1IWUBK         09         08*         00001000         1080I-LETTER BOX UP_BLK           220         1IWLBK         0C         0B*         00001011         1080I-LETTER BOX LO_BLK           221         1IWVS         00         00         00000000         1080I-LETTER BOX V_SIZE           222         1IWVPS         00         00         00000000         1080I-LETTER BOX V_POSITION           223         1IWVBS         01         01         00000001         1080I-LETTER BOX VBLK_SW           224         1IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1IWJSW         01         01         00000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I-LETTER BOX V_SCROLL	21B	1 ILBK	00	00	00000000	
21D         1IVAS         00         00         00000000         1080I-FULL V_ASPECT           21E         1IVSR         00         00         00000000         1080I-FULL V_SCROLL           21F         1IWUBK         09         08*         00001000         1080I-LETTER BOX UP_BLK           220         1IWLBK         0C         0B*         00001011         1080I-LETTER BOX LO_BLK           221         1IWVS         00         00         00000000         1080I-LETTER BOX V_SIZE           222         1IWVPS         00         00         00000000         1080I-LETTER BOX V_POSITION           223         1IWVBS         01         01         00000001         1080I-LETTER BOX V_POSITION           224         1IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1IWJSW         01         01         00000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I-LETTER BOX V_SCROLL           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK </td <td>21C</td> <td>1IRBK</td> <td>00</td> <td>00</td> <td>00000000</td> <td></td>	21C	1IRBK	00	00	00000000	
21E         1IVSR         00         00         00000000         1080I-FULL V_SCROLL           21F         1IWUBK         09         08*         00001000         1080I-LETTER BOX UP_BLK           220         1IWLBK         0C         0B*         00001011         1080I-LETTER BOX LO_BLK           221         1IWVS         00         00         00000000         1080I-LETTER BOX V_SIZE           222         1IWVPS         00         00         00000000         1080I-LETTER BOX V_POSITION           223         1IWVBS         01         01         00000001         1080I-LETTER BOX V_ASPECT           224         1IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1IWJSW         01         01         000000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I-LETTER BOX JMP_SW           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK	21D	1IVAS	00	00	00000000	
21F         1IWUBK         09         08*         00001000         1080I-LETTER BOX UP_BLK           220         1IWLBK         0C         0B*         00001011         1080I-LETTER BOX UP_BLK           221         1IWVS         00         00         00000000         1080I-LETTER BOX V_SIZE           222         1IWVPS         00         00         00000000         1080I-LETTER BOX V_POSITION           223         1IWVBS         01         01         00000001         1080I-LETTER BOX VBLK_SW           224         1IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1IWJSW         01         01         000000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I-LETTER BOX V_SCROLL           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK	21E	1/VSR	00	00	00000000	
221         1IWVS         00         00         00000000         1080I-LETTER BOX V_SIZE           222         1IWVPS         00         00         00000000         1080I-LETTER BOX V_POSITION           223         1IWVBS         01         01         00000001         1080I-LETTER BOX VBLK_SW           224         1IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1IWJSW         01         01         000000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I-LETTER BOX V_SCROLL           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK	21F	1IWUBK	09	08*	00001000	
222         1IWVPS         00         00         00000000         1080I-LETTER BOX V_POSITION           223         1IWVBS         01         01         000000001         1080I-LETTER BOX VBLK_SW           224         1IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1IWJSW         01         01         000000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         000000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         000000000         1080I-PRELIMINARY           228         DUBK         00         00         000000000         DIGITAL-FULL UP_BLK	220	11WLBK	oc .	0B*	00001011	1080I-LETTER BOX LO BLK
222         1 IWVPS         00         00         000000000         1080I-LETTER BOX V_POSITION           223         1 IWVBS         01         01         00000001         1080I-LETTER BOX VBLK_SW           224         1 IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1 IWVSW         01         01         000000001         1080I-LETTER BOX JMP_SW           226         1 IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I-PRELIMINARY           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK	221	1IWVS	00	00	00000000	1080I-LETTER BOX V SIZE
223         1IWVBS         01         01         00000001         1080I-LETTER BOX VBLK_SW           224         1IWVAS         12         12         00010010         1080I-LETTER BOX V_ASPECT           225         1IWJSW         01         01         000000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I-PRELIMINARY           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK	222	1IWVPS	00	00	00000000	
225         1IWJSW         01         01         00000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I-RELIMINARY           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK	223	1IWVBS	01	01	00000001	1080I-LETTER BOX VBLK SW
225         1IWJSW         01         01         00000001         1080I-LETTER BOX JMP_SW           226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I PRELIMINARY           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK	224	1IWVAS	12	12	00010010	1080I-LETTER BOX V ASPECT
226         1IWVSR         00         00         00000000         1080I-LETTER BOX V_SCROLL           227         227         00         00         00000000         1080I PRELIMINARY           228         DUBK         00         00         00000000         DIGITAL-FULL UP_BLK	225	1lWJSW	01	01	00000001	
228 DUBK 00 00 00000000 DIGITAL-FULL UP_BLK	226	1IWVSR	00	00	00000000	
SUBJECT OF	227	227	00	00	00000000	1080I PRELIMINARY
000	228	DUBK	00	00	00000000	DIGITAL-FULL UP_BLK
	229	DLBK	00	00	00000000	DIGITAL-FULL LO_BLK
22A DVS 00 00 00000000 DIGITAL-FULL V_SIZE	22A	DVS	00	00	00000000	
22B DVPS 00 01* 00000001 DIGITAL-FULL V_POSITION	22B	DVPS	00	01*	00000001	
22C DHSI 00 00 0000000 DIGITAL-FULL H_SIZE	22C	DHSI	00	00	00000000	
22D DHPO 00 00 0000000 DIGITAL-FULL H_POSITION	22D	DHPO	00	00	00000000	
22E DLBK 00 00 0000000 DIGITAL-FULL L_BLK	22E	DLBK	00	00	00000000	
22F DRBK 00 00 0000000 DIGITAL-FULL R_BLK	22F	DRBK	00	00	00000000	
230 DVAS 00 00 00000000 DIGITAL-FULL V_ASPECT	230	DVAS	00	00	00000000	DIGITAL-FULL V_ASPECT
231 DVSR 00 00 0000000 DIGITAL-FULL V_SCROLL	231	DVSR	00	00	00000000	
232 232 00 00 00000000 DIGITAL PRELIMINARY	232	232	00	00	00000000	
233 RZVS 00 00 00000000 RF-ZOOM V_SIZE	233	RZVS	00	00	00000000	
234 RZVPS 00 00 00000000 RF-ZOOM V_POSITION	234	RZVPS	00	00	00000000	
705	235	RZVBS	00	00	00000000	RF-ZOOM VBLK_SW

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No.	TITLE	INITIAL REFERENCE DATA HEX	INITIAL SETUP DATA HEX	INITIAL SETUP DATA BINARY	FUNCTION
236	RZVAS	00	00	00000000	RF-ZOOM V_ASPECT
237	RZZSW	00	00	00000000	RF-ZOOM ZOOM_SW
238	RZVSR	00	00	00000000	RF-ZOOM V_SCROLL
239	239	00	00	00000000	RF PRELIMINARY
23A	CZVS	00	00	00000000	VIDEO1/2-ZOOM V_SIZE
23B	CZVPS	00	00	00000000	VIDEO1/2-ZOOM V_POSITION
23C	CZVAS	00	00	00000000	VIDEO1/2-ZOOM V_ASPECT
23D	CZVSR	00	00	00000000	VIDEO1/2-ZOOM V SCROLL
23E	23E	00	00	00000000	VIDEO1/2 PRELIMINARY
23F	4IZVS	00	00	00000000	480I-ZOOM V_SIZE
240	4IZVPS	00	00	00000000	480I-ZOOM V_POSITION
241	4IZVAS	00	00	00000000	480I-ZOOM V_ASPECT
242	4IZVSR	00	00	00000000	480I-ZOOM V_SCROLL
243	243	00	00	00000000	4801 PRELIMINARY
244	4PZVS	00	00	00000000	480P-ZOOM V_SIZE
245	4PZVPS	00	00	00000000	480P-ZOOM V POSITION
246	4PZVAS	00	00	00000000	480P-ZOOM V_ASPECT
247	4PZVSR	00	00	00000000	480P-ZOOM V_SCROLL
248	248	00	00	00000000	480P PRELIMINARY
249	4PZVS	00	00		720P-ZOOM V SIZE
	4PZVS 4PZVPS	00	00	00000000	
24A		<u> </u>		00000000	720P-ZOOM V_POSITION
24B	4PZVAS	00	00	00000000	720P-ZOOM V_ASPECT
24C	4PZVSR	00	00	00000000	720P-ZOOM V_SCROLL
24D	24D	00	00	00000000	720P PRELIMINARY
24E	1IZVS	00	00	00000000	1080I-ZOOM V_SIZE
24F	1IZVPS	00	00	00000000	1080I-ZOOM V_POSITION
250	1IZVAS	00	00	00000000	1080I-ZOOM V_ASPECT
251	11ZVSR	00	00	00000000	1080I-ZOOM V_SCROLL
252	252	00	00	00000000	1080I PRELIMINARY
253	DZVS	00	00	00000000	DIGITAL-ZOOM V_SIZE
254	DZVPS	00	00	00000000	DIGITAL-ZOOM V_POSITION
255	DZVAS '	00	00	00000000	DIGITAL-ZOOM V_ASPECT
256	DZVSR	00	00	00000000	DIGITAL-ZOOM V_SCROLL
257	257	00	00	00000000	DIGITAL PRELIMINARY
258	PUBK	07	08*	00001000	PAP-ON UP_BLK
259	PLBK	0F	0F	00001011	PAP-ON LO_BLK
25A	PVS	00	00	00000000	PAP-ON V_SIZE
25B	PVPS	00	00	00000000	PAP-ON V_POSITION
25C	PUUC	00	00	00000000	PAP-ON UP_UCP
25D	PPAP	00	00	00000000	PAP-ON PIN_AMP
25E	PLUP	00	00	00000000	PAP-ON LO_UCP
25F	PUCP	00	00	00000000	PAP-ON UP_UCP
260	PUUG	00	00	00000000	PAP-ON_UP_UCG
261	PLCP	00	00	00000000	PAP-ON LO_CPIN
262	PLUG	00	00	00000000	PAP-ON LO_UCG
263	PPPH	00	00	00000000	PAP-ON PIN_PHASE
264	PVBS	01	01	00000001	PAP-ON VBLK_SW
265	PABO	00	00	00000000	PAP-ON AFC_BOW
266	PAAN	00	00_	00000000	PAP-ON AFC_ANGLE
267	PVAS	12	12	00010010	PAP-ON V_ASPECT
268	PJSW	01	01	00000001	PAP-ON JMP_SW
269	PVSR	00	00	00000000	PAP-ON V_SCROLL
26A	26A	00	00	00000000	PAP-ON PRELIMINARY
26B	DWUBK	07	08*	00001000	DIGITAL-LETTER BOX UP_BLK
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# **Table 1. ON-SCREEN SERVICE MENU (Continued)**

No.	TITLE	INITIAL REFERENCE		INITIAL SETUP	CHRISTION
260	DWLBK	DATA HEX	DATA HEX	DATA BINARY	FUNCTION
26D	DWVS	0F	0B*	00001011	DIGITAL-LETTER BOX LO_BLK
26E	DWVPS	00	00	00000000	DIGITAL-LETTER BOX V_SIZE
26F	DWVPS	00	00	00000000	DIGITAL-LETTER BOX V_POSITION
270	DWVAS	01	01	00000001	DIGITAL-LETTER BOX VBLK_SW
271	DWJSW	12 01	12	00010010	DIGITAL-LETTER BOX V_ASPECT
272	DWVSR	00	01	00000001	DIGITAL-LETTER BOX ZOOM_SW
040	HU2DO1CY	<del></del>	00	00000000	DIGITAL-LETTER BOX V_SCROLL
041	COL2RHM1CAN	83 52	83	10000011	HUE(7-2),DPIC_OFF(1),CV/YC(0)
042	SHA4SCO	47	52	01010010	COLOR(7-2), RF HMASK(1), CANAL(0)
043	SHU4SCL	77	47	01000111	SHARPNESS(7-4), SUBCONT(3-0)
044	CAJ4RAF2TRO1TOO	78	72*	01110010	SUBHUE(7-4), SUBCOLOR(3-0)
045	YD3SF2F01CM2	2A	78 32*	01111000	CTRAPADJ(7-4),AFC(3-2),TRAPON(1),TOT ON(0)
046	UPD4VPD	68		00110010	Y DRIVE(7-3), SHP-f0(2), FSC OUT(1), CD MODE2(0)
047	U2PD4V2PD	00	68	01101000	U PED(7-4), V PED(3-0)
048	Y2D3DCT	00	00	00000000	U2 PED(7-4), V2 PED(3-0)
049	U2D3PRO1	00	00	00000000	Y2 DRIVE(7-3), DC TRAN(2-0)
04A	V2D	00	00		U2 DRIVE(7-3), PRE OVER(2-1), bit0: 0 (bit0: fixed)
04B	CS6XP4VF2DL	02	02	00000000	V2(7-3), bit2: 0, bit1: 0, bit0: 0 (bit2 / 1/ 0: fixed)
04C		01	01	00000010	CS(7-6),XP(5-4),VF(3-2),DL(1-0)
04D	EXAFC	00	00	00000001	bit7, 6: 0, bit5, 4: 0, bit3, 2: 0, bit1: 0 ,bit0: 1
04E	EXCAFC	01	01	00000001	EX(V1/V2)AFC EX(V3)AFC
04F	04F	00	00	00000000	PRELIMINARY
050	HF61SW42SW2SL	3C	3C	00111100	
051	D16D24D33T21I12I	03	03	00000011	HF6(7-6), 1SW(5-4), 2SW(3-2), SL(1-0)
052	VF6CP4FDS2IS	cc	cc	11001100	D16(7-6), D24(5-4), D33(3), T2(2), 111(1), 21(0) VF6(7-5), CP(4), FDS(3-2), IS(1-0)
053	HP2V11V2	53	7B*	01111011	HP(7-2),V1(1),V2(0)
054	4PHF	01	01	00000000	480P H-FREQUENCY
056	7PHF	03	03	00000000	720P H-FREQUENCY
057	4PVF	04	04	00000000	480P V-FREQUENCY
058	1IVF	03	03	00000000	1080I V-FREQUENCY
059	7PVF	01	01	00000000	720P V-FREQUENCY
05A	WDT	1A	1A	00000000	WATCH DOG TIMER (*500MSEC)
05B	3D04	29	29	00000000	3D Y/C DATA 04
05C	3D05	36	36	00000000	3D Y/C DATA 05
05D	3D06	99	99	00000000	3D Y/C DATA 06
05E	3D0A	52	52	00000000	3D Y/C DATA 11
05F	3D0B	3A	3A	00000000	3D Y/C DATA 12
060	3D10	50	50	00000000	3D Y/C DATA 17
080	ATT	07	67 P	00000000	MTS:INPUT LEVEL(8-0)
081	WDB	20 (20)	9 20	00000000	MTS LOW SEPARATION(5-0)
082	SHEET DISPOSED IN	20	1-1-1-20 1 H	00000000	MTS HI SEPARATION(5-0)
083	083	00	00	00000000	NOT AVAILABLE
084	084	00	00	00000000	NOT AVAILABLE
085	085	00	00	00000000	NOT AVAILABLE
086	086	00	00	00000000	NOT AVAILABLE
087	OP1	00 1111	(1911 <mark>-00</mark> (1911)	0000000	CRIONI DATA
- Harbara	ignadizaç <b>ı ge</b> gelerlik mir		The service of the service of	00010000	OPHON2 DATA
-089	050	ng Sulg <b>02</b> milian t	1 1 1 102 in 12	00000010	OSD H-POSITION
08A	08A	00	00	00000000	NOT AVAILABLE
08B	VMT	48	48	01001000	VIDEO MUTE TIME
يــــــا		<u>l</u>	1		

No.	TITLE	INITIAL REFERENCE DATA HEX	INITIAL SETUP DATA HEX	INITIAL SETUP DATA BINARY	FUNCTION
08C	AKB	30	10*	00010000	AKB DETECT TIME
08D	-	00	00	00000000	NOT AVAILABLE
08E	_	00	00	00000000	NOT AVAILABLE
255		00	00	00000000	NOT AVAILABLE
	R/B DRIVE		- 1 <b>-</b> 1 - 1		A / B DRIVE LEVEL AG JUSTMENT
	SCREEN	Control of the contro	elimine de la marcia	(新學者)[4][7]	BLACK SCREEN FOR SCREEN ACCUSTMENT
0B0	ROO			_	ROM CORRECTION DATA
	<u>↓</u>	<b>↓</b>		<b>+</b>	<b>+</b>
0F7	R47	-	-		ROM CORRECTION DATA

### **PROGRAM CODES**

The microprossesor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

Note 1. Option Data 1 (NO. 087 OP1).

Is not used in this model.

Note 2. Option Data 2 (NO. 088 OP2) should be Hexadecimal 10 (00010000 binary). If this program code is wrong the TV will not operate properly.

	·		
BIT	FUNCTION	DA	TA
	1011011	0	1
0	NOT USED		-
1	TV ASPECT RATIO	4:3	16:9
2	NOT USED		-
3	NOT USED		-
4	PAP	NONE	YES
5	NOT USED	-	_
6	NOT USED	-	_
7	NOT USED	_	_

# **SERVICE ADJUSTMENTS (Continued)**

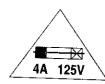
# **ANTENNA CONNECTIONS**

This receiver is designed for UHF/VHF and Digital RF reception. A 75 ohm terminal is provided for UHF/VHF reception and a separate 75 ohm terminal is provided for Digital RF reception. When connecting a CATV antenna system, connect the 75 ohm coaxial cable directly to the 75 ohm UHF/VHF terminal. For 300 ohm VHF antenna, use an adapter (not included with the TV set).

# **CIRCUIT PROTECTION**

Fuse F601 (4A) is included in the AC line. This fuse must be replaced with the proper fuse (see Parts List).

### CAUTION



FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE 4A, 125V FUSE.

ATTENTION: POUR MAINTENIR LA PRO-TECTION CONTRE LES RISQUES D'INCENDIE UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE 4A, 125V.

# **+B VOLTAGE CHECK**

- Connect Voltmeter + lead to TJ1 (140 V) and lead to ground (Power/Deflection board).
- 2. Connect receiver to AC 120V line.
- 3. Tune receiver to an active channel.
- Set the picture controls to the Sports level or Reset (use MENU key and ▲ or ▼ key or RESET key).
- 5. Voltage must measure between 139.0 V and 142.0V. If the voltage is out of range, the power circuit must be checked. No +B adjustment is provided on this chassis.

# HORIZONTAL CENTERING ADJUSTMENT

- 1. Tune receiver to an active analog channel.
- 2. Select Full Mode.
- Check that picture is in the horizontal center of TV screen. If picture is not centered horizontally, perform steps 3 - 6.
- 4. Turn off the receiver and disconnect the AC power cord. (120V AC line)
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- 6. Select NO. 11E (HPO2: Horizontal Position, Bit 7 2) with ▲ or ▼ key.
- Adjust the data with numeric keys for horizontal center. To turn off the Service Menu display, press the MENU key.

# HORIZONTAL WIDTH ADJUSTMENT

- 1. Tune receiver to an active analog channel.
- 2. Select Full Mode.
- 3. Check the picture for proper width. If width is not correct, perform steps 3 6.
- 4. Turn off the receiver and disconnect the AC power cord.
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- Adjust the data with numeric keys for proper width. To turn off the Service Menu display, press the MENU key.

# **VERTICAL SIZE ADJUSTMENT**

- 1. Tune receiver to an active analog channel.
- Check the vertical size of the picture. If the vertical size is too large or small, perform steps 3 ~ 6.
- 3. Turn off the receiver and disconnect the AC power cord.
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- Select NO. 116 (VS: Vertical Size, Bit 7 2) with ▲ or ▼
- Adjust the data with + or key for full scan. To turn off the Service Menu display, press the MENU key.

# **VERTICAL CENTERING ADJUSTMENT**

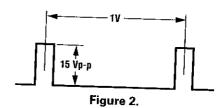
- 1. Tune receiver to an active analog channel.
- Check that picture is in the vertical center of TV screen.
   If picture is not centered vertically, perform steps 3 6.
- 3. Turn off the receiver and disconnect the AC power cord.
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- 5. Select NO. 117 (VPS: Vertical Position) with ▲ or ▼ key.
- 6. Adjust the data with numeric key for vertical center. To turn off the Service Menu display, press the MENU key.

# GRAYSCALE ADJUSTMENT

- Connect a color-bar generator to the analog antenna terminal.
- 2. Switch the generator to the white pattern.
- Set the picture controls to the Sports level or Reset (use MENU key and ▲ or ▼ key or RESET key).
- Turn off the receiver and disconnect the AC power cord (120V AC line).
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- Select the following service menu items with the ▲ or ▼ keys and set the data with the numeric keys.
- Select NO. 106 RD2 (Red Drive) and set data to 70, NO. 107 GD2 (Green Drive) and set data to 7F, and NO. 108 BD2 (Blue Drive) and set data to 70.
- Set NO. 10A RCT2 (Red Cutoff) data to 88, NO. 10B GCT2 (Green Cutoff) data to 5D, and NO. 10C BCT2 (Blue Cutoff) data to 75.
- Set NO. 109 SBR2 (Sub Brightness) data to 2A and NO. 105 SSH2 (Sub Sharpness) data to 89.

### Screen Adjustment

- Connect oscilloscope probe (at least 50:1) to TP47G and ground lead to TE47 on the CRT socket PWB.
- 11. Select "Screen Adjustment" Menu (between NO. 08F and 0B0) with ▲ or ▼ key (Black Picture).
- 12. Adjust Screen Control (T402) to obtain 15 Vp-p from black to white level. (See Figure 2.)



### **Drive Level Adjustment**

- 13. Select "Drive Level Adjustment" Menu (between NO. 08E and NO. 0B0) with ▲ or ▼ key. The Menu display will appear.
- 14. Adjust Red and Blue Drive Levels alternately with 1, 3, 7, or 9 key to produce normal black and white picture in highlight areas. The Drive Level adjustment data will be written in the Service Menu No. 106 and 108 automatically. (See Figure 3.)

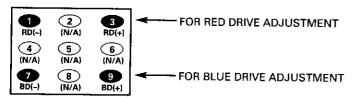


Figure 3. Remote Control Number keys' functions in Service Menu "Drive Level Adjustment"

15. Check for proper grayscale at all brightness levels.

Note: If Grayscale Adjustment is made after picture tube replacement, check Brightness Adjustment.

### **BRIGHTNESS LEVEL ADJUSTMENT**

Note: Grayscale Adjustment and High Voltage Check must be completed before attempting Brightness Level Adjustment.

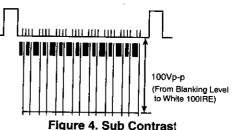
- 1. Connect a color-bar generator to the analog antenna terminal.
- 2. Switch the generator to the 15 IRE flat pattern.
- 3. Select Full Mode.
- 4. Reset the picture controls to the Sports level.
- Connect voltmeter (high impedance) + lead to terminal TP51 and - lead to terminal TP50 on P/D board. Set voltmeter for 1.5V ~ 3V range.
- 6. Turn off the receiver and disconnect the AC power cord.
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- Select NO. 109 (SBR2: Sub Brightness, Bit 7 2) with ▲ or ▼ key.
- 9. Adjust the data with numeric keys for 20mVDC.
- 10. Press the MENU key to turn off the Service Menu display.
- 11. Check brightness level on every active channel, readjust (repeat steps 5 ~ 9), if necessary.

Note: Do not set to excessive brightness level, otherwise the contrast level will be suppressed.

# SUB CONTRAST ADJUSTMENT

- 1. Connect a color-bar generator to the analog antenna terminal.
- 2. Switch the generator to the crosshatch pattern.
- Connect oscilloscope probe (at least 50:1) to TP47G and ground lead to TE47 on the CRT socket PWB.
- 4. Turn off the receiver and disconnect the AC power cord.
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- Select NO. 109 (SBR2: Sub Brightness, Bit 7 2) with ▲ or ▼ key. Remember this data setting.

- 7. Set the data with numeric key to 2E with numeric keys.
- 8. Select NO. 10D (SCO4: Sub Contrast, Bit 7 4) with ▲ or ▼ key.
- 9. Set the data with numeric keys 4 7 for 100Vp-p.
- Reset brightness level to previous data (repeat steps 6 7). To turn off the Service Menu display, press the MENU key.



# SUB COLOR AND SUB HUE ADJUSTMENT Sub Hue (Tint)

- Connect a color-bar generator to the analog antenna terminal. Set picture controls to Sports level.
- 2. Switch the generator to the color-bar (NTSC) pattern.
- Connect oscilloscope probe (at least 50:1) to TP47G and ground lead to TE47 on the CRT socket PWB.
- 4. Turn off the receiver and disconnect the AC power cord.
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- 6. Select NO. 102 (SHU2: Sub HUE, Bit 7 2) with ▲ or ▼ kev.
- 7. Set the data with numeric keys 2 7 for waveform shown in Figure 5.



Figure 5. Sub Hue

#### **Sub Color**

- 8. Select NO. 103 (SCL2: Sub Color, Bit 7 2) with ▲ or ▼ key.
- 9. Set the data with numeric keys 7 -2 for waveform shown in Figure 6 (Flat Waveform).
- After adjustment add 8 steps to NO. 102 (SHU2: Sub HUE) data and 8 steps to NO. 103 (SCL2: Sub Color) data.
   To turn off the Service Menu display, press the MENU key.

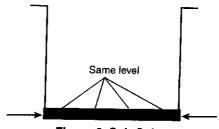


Figure 6. Sub Color

# **SERVICE ADJUSTMENTS (Continued)**

#### HIGH VOLTAGE HOLD-DOWN TEST

Every time the receiver is serviced, the HIGH VOLTAGE HOLD-DOWN circuit must be tested for proper operation by following these steps:

- Connect receiver to 120V AC line. Tune receiver to active channel. Reset the picture controls to the Sports level.
- Check that the voltage measured between TP7 and TE7 (ground side) on the P/D PC board is within 20 VDC to 24 VDC. If the voltage is out of this range, the Hold-Down Circuit must be checked.
- 3. Connect a DC Voltage supply to TP7 and TE7 through a 100 ohm 1/4W resistor. Adjust the DC voltage to 26 VDC. The receiver should shut down, losing raster and sound. Then the receiver should turn off automatically. This reaction indicates that the Hold-Down circuit is functioning properly. If the receiver does not shutdown, a malfunction is indicated and its cause must be found and corrected.
- 4. To obtain picture again, remove the DC Supply and wait a few minutes. Now turn on the receiver.

### HIGH VOLTAGE CHECK

Note: +B (+140V) Voltage Check and Grayscale Adjustment must be completed before attempting High Voltage Check.

- 1. Connect high voltage voltmeter lead to ground, and connect + lead to anode of picture tube.
- Tune receiver to an active channel and confirm TV is operating properly.
- Eliminate the beam current by adjusting the contrast and brightness controls to minimum.
- 4. Confirm high voltage is within 28.2 KV and 32.9 KV. If reading is not within range, check horizontal circuit.

No high-voltage adjustment is provided on this chassis.

### **FOCUS ADJUSTMENT**

Adjust focus control (T402) for well defined scanning lines.

### **PURITY AND CONVERGENCE ADJUSTMENTS**

Purity and Convergence have been aligned at the factory. No re-alignment is necessary.

#### MULTI-SOUND SECTION ADJUSTMENTS

Note: Multi-Sound Section must be adjusted after A101 (U/V Tuner), IC3601 (MTS Decoder), Digital Module or IC802 (EEPROM) is replaced.

#### INPUT LEVEL ADJUSTMENT

- 1. Connect a signal to the analog antenna terminal with audio of 1 KHz 100% modulation.
- 2. Turn off the receiver and disconnect the AC power cord (AC 120V line).
- Connect voltmeter (RMS) to TP317 and ground on the Main PC board.
- 4. While pressing the VOLUME key, reconnect the AC power cord. The Service Menu will now appear.
- Select NO. 080 (ATT: MTS Input Level) with the ▲ or ▼ key.
- 6. Adjust the + or key for a voltmeter reading of 400  $\pm$  20 mVrms at TP317.

### **SEPARATION ADJUSTMENT**

- 7. Turn off the receiver and disconnect the AC power cord (AC 120V line).
- Connect oscilloscope CH1 to TP317 and CH2 to TP318 and ground.
- 9. Connect an MTS TV/Stereo generator to antenna terminal.
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu will now appear.
- Select pilot, 300Hz audio frequency and Left modulating signal.
- 12. Select NO. 081 (WDB: Wide Band) with the ▲ or ▼ key.
- 13. Adjust the + or key for minimum low frequencies at TP317. (See Figure 7.)
- 14. Select 4 KHz audio frequency and Right modulating signal.
- 15. Select NO. 082 (SPC: Spectral) with the ▲ or ▼ key.
- 16. Adjust the + or key for minimum high frequencies at TP318. (See Figure 7.)

Repeat adjustments (steps 11–16) until no further decreases in amplitude can be obtained. Press the MENU key to turn off the Service Menu display.

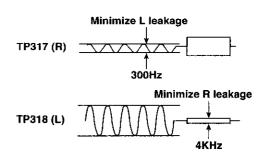


Figure 7. Separation Adjustments

### PINCUSHION CORRECTION ADJUSTMENT

- Connect a color-bar generator to the analog antenna terminal and select a crosshatch pattern.
- 2. Set the picture controls to the Sports level.
- Turn off the receiver and disconnect the AC power cord (AC 120V line).
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu will now appear.
- Select the items below with ▲ or ▼ key according to the symptoms of Figure 8.

NO.ITEM	Bit	NAME	
11A	PAP2	7 - 2	Pin AMP
11D	PPH2	7 - 2	Pin Phase
11F	ABO2	7 - 2	AFC Bow
120	AAN2	7 - 2	AFC Angle
11B	UCP2	7 - 2	Upper Corner Pin
11C	LCP2	7 - 2	Lower Corner Pin

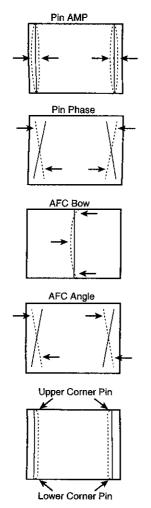


Figure 8. Pincushion Adjustments

Adjust the data with numeric keys for straight vertical lines. To turn off the Service Menu display, press the MENU key.

### **OSD ADJUSTMENT**

- 1. Connect a color-bar generator to the analog antenna terminal.
- 2. Set the picture controls to the Sports level.
- Turn off the receiver and disconnect the AC power cord. (120V AC line)
- While pressing the VOLUME key, reconnect the AC power cord. The Service Menu display will now appear.
- Select NO. 089 (OSD: On-Screen Display) with ▲ or ▼ key.
- Adjust the + or key for proper position shown in Figure 9. To turn off the Service Menu display, press the MENU key.

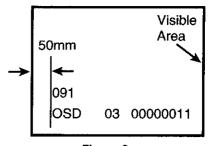
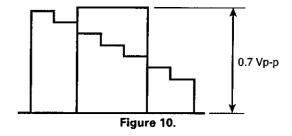


Figure 9.

### COMPONENTY LEVEL CONFIRM

- Connect a color-bar generator to the analog antenna terminal.
- 2. Switch the generator to the color-bar (NTSC) pattern.
- 3. Connect oscilloscope probe to Connector KG pin 12 and ground on the main board.
- 4. Confirm a reading of 0.7 Vp-p ± .05. See Figure 10.



# **SERVICE HINTS**

### **POWER FAILURE DETECTOR**

This unit is equipped with a Power Failure Detector function included in the CPU which checks for an abnormal condition in the chassis power supplies, including the power supply derived from the Horizontal Output Transformer.

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the CPU will turn the unit off in 1.5 seconds to prevent further damage:

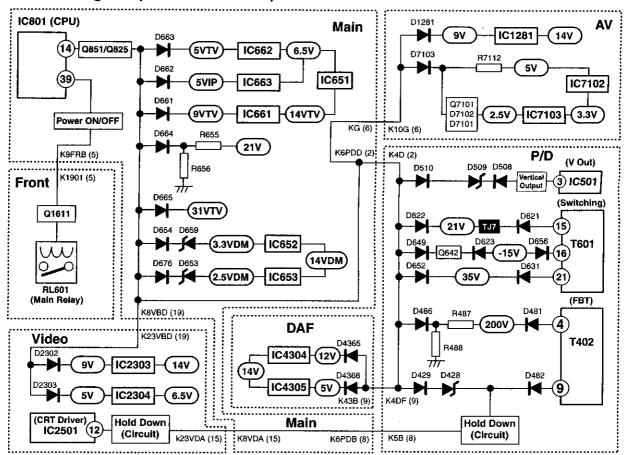
- Failure within the power supply circuits.
- A short circuit in the load side from the supply.
- Stoppage of the Horizontal Output Oscillator caused by the X-Radiation protection Hold-Down Circuit.

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the CPU will shut off the power within three seconds.

Check the following if the unit is turned off by the power failure detector.

- 1. Disconnect the AC power cord (120V AC line) for at least 10 seconds.
- 2. Connect a DC Voltmeter to the circuits shown below.

### **Block Diagram (Power Fail Lines)**



- 3. Press the Power key and check for the proper voltage supplies.
- 4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
- 5. Check all circuits shown above.

Note: This unit is equipped with a Power Surge Protection feature included in the CPU. If power failure occurs three times within 15 minutes, the CPU will automatically stop functioning to help prevent secondary damage. (TV will not turn on by pressing the power key.) To reset the operating programs within the CPU, disconnect the AC power cord for at least 10 seconds.

# **MECHANICAL DISASSEMBLIES**

# CABINET BACK REMOVAL

- 1. Refer to Figure 1, remove 13 screws.
- 2. Pull off cabinet back and remove.

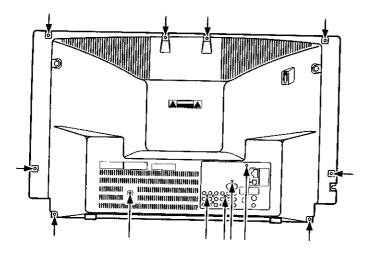


Figure 1. Cabinet Back Removal

# **CHASSIS REMOVAL**

- 1. Remove cabinet back.
- 2. Discharge the picture tube anode (2nd anode lead) to the dag coating (picture tube grounding lead).
- Disconnect degaussing coil socket (KD), picture tube socket, deflection yoke connector (KX), speakers connector (KSP), picture tube ground leads (2), velocity modulation coil connector (K17A) and 2nd anode lead.
- 4. Remove chassis completely by sliding it straight back.

# PICTURE TUBE REMOVAL

CAUTION: Do not disturb the deflection yoke or magnet assembly on the picture tube neck. Care must be taken to keep these assemblies intact, unless picture tube is being replaced. Discharge the picture tube to the coating before handling the tube.

- 1. Remove chassis, referring to Chassis Removal instructions.
- 2. Place cabinet's front face down on a soft surface.
- Remove the screw on each corner of the picture tube and GENTLY lift the picture tube out of the cabinet.
- 4. Install a replacement picture tube in reverse order. Properly install the degaussing coil and picture tube grounding lead on the picture tube. See Figure 2.

Note: If Picture Tube is being replaced, mount the Degaussing Coil properly on the tube. See Figure 2.

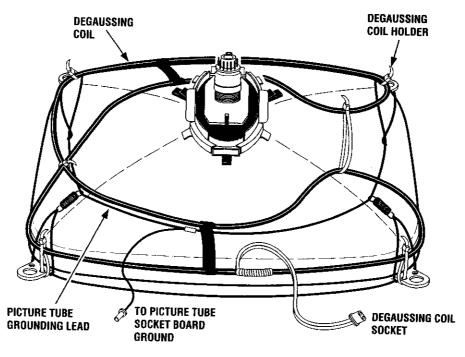


Figure 2. Picture Tube Removal

# CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS. X-RADIATION PRECAUTIONS, HIGH VOLTAGE HOLD-DOWN TEST, and PRODUCT SAFETY NOTICE on Page 2.

### **PRODUCT SAFETY NOTICE**

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A STAR (\*) IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A STAR. NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A STAR.

Notes: Parts having Location Number are located on the following boards. Numbers 400, 600, Series ......On the Main Board and Power / Deflection Board Numbers 700 Series ......On the Picture Tube Socket Board Numbers 900 Series ......Out of Board. Numbers 1700 Series . . . . . . . . . . . . . . . On the Velocity Modulation Board Numbers 2000 Series ......On the Video Board All Other Numbers ......On the Main Board and AV Board

Note: Schematic part location numbers may not always match with the part descriptions.

The part descriptions are correct and should be used.

#### **CAPACITORS**

### NOTES:

Read description of the Capacitor as follows:

#### (Example) CERAMIC 100P К 50V - Rated Voltage Tolerance Symbols: less than 10PF A .. Not specified B . .±0.1PF C . .±0.25PF D . .±0.5PF F ..±1PF R ..+0.25 - 0PF G . .±2PF S ..+0 - 0.25PF E ..+0 - 1PF more than 10PF A . . Not specified B . .±0.1% C . .±0.25% F ..±1% D . .±0.5% G . .±2% H . .±3% J . .±5% K . .±10% L ..±15% M . .±20% N . .±30% P ..+100 - 0% Q . .+30 - 10% T .+50 - 10% U . .+75 - 10% V . .+20 - 10% W .+100 - 10% X . .+40 - 20% Y . .+150 - 10% Z . .+80 - 20% Rated Value: P...Pico Farad U...Micro Farad Material:

CERAMIC . . . . . Ceramic

MT-PAPER . . . . . Metalized Paper

POLYESTER ...Polyester MT-POLYEST ..Metalized Polyester

POLYPRO .....Polypropylene MT-POLYPRO ..Metalized Polypropylene

COMPO-FILM . . Composite Film MT-COMPO . . . . Metalized Composite

STYRENE . . . . . Styrene

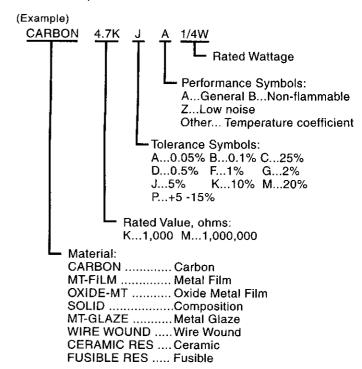
TA-SOLID . . . . Tantalum Solid AL-SOLID . . . . . Aluminum Solid ELECT ......Electrolytic

NP-ELECT .....Non-Polarized Electrolytic OS-SOLID . . . . . Aluminum Solid with Organic

Semiconductive Electrolytic

#### RESISTORS

Read description of the Resistor as follows:



Schematic Location	Part No.	De	scription		Schematic Location	Part No.	De	scription	
	MAIN PC	BOARD	<del></del> -		C864	403 235 6203	_I CERAMIC	0.01U Z	
	,	DOMIND			C865	404 084 2507	ELECT	47U M	
	CAPACITOR	S			C866	404 084 3801	ELECT	1U M	
C100	403 224 6108	CERAMIC	0.01U K	50V	C867	403 235 6203	CERAMIC	0.01U Z	
C101	404 084 2408	ELECT	470U M		C871	403 233 0203	CERAMIC		
C102	403 224 6108	CERAMIC	0.01U K		C1261	403 279 0106		0.1U Z	
C103	403 235 6203	CERAMIC	0.01U Z		C1262	404 084 3207	CERAMIC ELECT	0.1U Z	
C105	404 084 4303	ELECT	47U M	50V	C1263	403 279 0106	CERAMIC	47U M 0.1U Z	
C106	403 224 6108	CERAMIC	0.01U K	50V	C1264	403 279 0106			
C489	404 084 3306	ELECT	470U M	16V	C1265	403 279 0106	CERAMIC	0.1U Z	
C646	404 084 3405	ELECT	1000U M	25V	C1266	404 085 5606	CERAMIC	0.1U Z	
C648	403 279 0106	CERAMIC	0.1U Z	25V	C1267	404 085 5606	NP-ELECT NP-ELECT	22U M	
C650	404 084 3405	ELECT	1000U M	25V	C1268	404 085 5606	NP-ELECT	22U M 22U M	16V
C651	403 279 0106	CERAMIC	0.1U Z	25V	C1269	404 084 2804	ELECT		
C652	404 084 3405	ELECT	1000U M	25V	C1270	404 084 2604	NP-ELECT	100U M	16V
C653	404 087 1804	ELECT	1000U M	10V	C1273	404 085 5606		22U M	16V
C654	403 260 2003	MT-COMPO	1U J	50V	C1276		NP-ELECT	22U M	16V
C655	403 279 0106	CERAMIC	0.1U Z	25V	C1279	404 085 5606 404 088 5702	NP-ELECT	22U M	16V
C658	404 087 1804	ELECT	1000U M	10V	C1279	404 088 5702	ELECT	22U M	16V
C659	403 260 2003	MT-COMPO	1U J	50V	C1292	404 088 5702	ELECT	22U M	16V
C660	404 087 1804	ELECT	1000U M	10V	C1294	404 088 5702	ELECT ELECT	22U M	16V
C661	404 084 2804	ELECT	1000U M	16V	C1815	403 279 0106	CERAMIC	22U M	16V
C662	404 084 2804	ELECT	100U M	16V	C1851	404 084 3207		0.1U Z	25V
C663	403 279 0106	CERAMIC	0.1U Z	25V	C1852	404 004 3207	ELECT	47U M	16V
C664	404 084 2804	ELECT	100U M	16V	C1853		CERAMIC	0.1U Z	25V
C665	404 084 2804	ELECT	100U M	16V	C1854	403 235 0607	CERAMIC	100P J	50V
C666	403 279 0106	CERAMIC	0.1U Z	25V	C1855	403 235 0607	CERAMIC	100P J	50V
C671	404 084 2804	ELECT	100U M	16V	C1857	403 235 0904	CERAMIC	180P J	50V
C672	403 260 2003	MT-COMPO	1U J	50V	C2801	403 235 1406 403 279 0106	CERAMIC	470P J	50V
C801	403 224 5507	CERAMIC	22P J	50V	C2802	403 279 0106	CERAMIC CERAMIC	0.1U Z 0.1U Z	25V
C802	403 224 5507	CERAMIC	22P J	50V	C2803	403 279 0106	CERAMIC		25V
C804	403 235 6203	CERAMIC	0.01U Z	50V	C2804	403 279 0106	CERAMIC	0.1U Z 0.1U Z	25V
C806	403 235 6203	CERAMIC	0.01U Z	50V	C2806	404 084 4006	ELECT	2.2U M	25V 50V
C814	403 235 6203	CERAMIC	0.01U Z	50V	C2807	403 224 6108	CERAMIC	0.01U K	50V 50V
C816	403 235 0003	CERAMIC	33P J	50V	C2810	404 084 2804	ELECT	100U M	16V
C818	403 224 5507	CERAMIC	22P J	50V	C2811	403 279 0106	CERAMIC	0.1U Z	25V
C821	403 224 5507	CERAMIC	22P J	50V	C2812	404 084 2804	ELECT	100U M	16V
C822	404 084 2408	ELECT	470U M	6.3V	C2813	403 279 0106	CERAMIC	0.1U Z	25V
C823	403 235 6203	CERAMIC	0.01U Z	50V	C2814	403 279 0106	CERAMIC	0.1U Z	25V
C824	404 084 3801	ELECT	1U M	50V	C2825	404 084 3801	ELECT	1U M	50V
C825	403 224 5705	CERAMIC	1000P K	50V	C2827	404 084 3801	ELECT	1U M	50V
C826	403 235 0706	CERAMIC	120P J	50V	C2902	404 084 2705	ELECT	10U M	16V
C827	403 235 6203	CERAMIC	0.01U Z	50V	C2904	404 084 2705	ELECT	10U M	16V
C829	403 235 6203	CERAMIC	0.01U Z	50V	C2905	403 279 0106	CERAMIC	0.1U Z	25V
C832	403 224 5507	CERAMIC	22P J	50V	C2907	404 084 2705	ELECT	10U M	16V
C833	403 235 0300	CERAMIC	56P J	50V	C2908	404 084 2804	ELECT	100U M	16V
C834	403 235 0300	CERAMIC	56P J	50V	C2914	403 279 0106	CERAMIC	0.1U Z	25V
C835	403 235 0300	CERAMIC	56P J	50V	C2940	404 084 2705	ELECT	10U M	16V
C836	403 235 0300	CERAMIC	56P J	50V	C2943	404 084 2705	ELECT	10U M	16V
C837	403 235 4605	CERAMIC	270P K	50V	C2945	404 084 2705	ELECT	10U M	16V
C840	403 224 5507	CERAMIC	22P J	50V	C2950	403 279 0106	CERAMIC	0.1U Z	25V
C841	403 224 5507	CERAMIC	22P J	50V	C2951	404 084 2804	ELECT	100U M	16V
C842	403 224 5507	CERAMIC	22P J	50V	C2952	404 085 5606	NP-ELECT	22U M	16V
C844	403 224 5804	CERAMIC	2200P K	50V	C2954	404 085 5606	NP-ELECT	22U M	16V
C852	403 235 1000	CERAMIC	220P J	50V	C2956	404 085 5606	NP-ELECT	22U M	16V
C854	403 155 4600	CERAMIC	4P C	50V		404 087 1200	ELECT	0.1U M	50V
C855	403 155 4600	CERAMIC	4P C	50V		404 089 6500	NP-ELECT	4.7U M	50V
C856	403 155 4600	CERAMIC	4P C	50V		404 084 3801	ELECT	1U M	50V
							<del>-</del> ·	· 🕶 171	
	403 235 6203 404 084 3801	CERAMIC ELECT	0.01U Z	50V	C3403	404 084 3801	ELECT	1U M	-50V

C3406	Schematic Location	Part No.	De	scription	CANADA CANADA (ACC.) (STV MANALACA).		Schematic Location	Part No.	Description
C3407 400 897 1200 ELECT 1.01 M 50V D801 407 0205 5608 ZENER DIODE U02510B TE-17 C3409 400 698 40204 ELECT 1.01 M 50V D809 407 206 5608 ZENER DIODE U02510B TE-17 C3411 404 084 3801 ELECT 1.01 M 50V D810 407 206 5608 ZENER DIODE U02510B TE-17 C3411 404 084 3801 ELECT 1.01 M 50V D810 407 206 5608 ZENER DIODE U02510B TE-17 C3412 404 084 3801 ELECT 1.01 M 50V D816 407 206 5608 ZENER DIODE U02510B TE-17 C3415 404 084 2003 ELECT 1.01 M 50V D816 407 206 5608 ZENER DIODE U02510B TE-17 C3416 404 084 3801 ELECT 1.01 M 50V D816 407 206 5608 ZENER DIODE U02510B TE-17 C3417 404 084 3801 ELECT 1.01 M 50V D826 407 206 5608 ZENER DIODE U02510B TE-17 C3418 404 084 3801 ELECT 1.01 M 50V D826 407 206 5608 ZENER DIODE U02510B TE-17 C3418 404 084 3801 ELECT 1.01 M 50V D826 407 206 5608 ZENER DIODE U02510B TE-17 C3420 404 084 3801 ELECT 1.01 M 50V D826 407 206 5608 ZENER DIODE U02510B TE-17 C3420 404 084 3801 ELECT 1.01 M 50V D826 407 206 5608 ZENER DIODE U02510B TE-17 C3420 404 084 3801 ELECT 1.01 M 50V D826 407 206 5608 ZENER DIODE U02510B TE-17 C3420 404 084 3800 ELECT 1.01 M 50V D826 407 206 5608 ZENER DIODE U02510B TE-17 C3420 404 084 3800 ELECT 1.01 M 50V D826 407 206 5608 ZENER DIODE U02510B TE-17 C3420 404 084 3801 ELECT 1.01 M 50V D826 A07 221 7106 ZENER DIODE U02510B TE-17 C3424 404 084 4204 ELECT 1.01 M 50V D836 407 221 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 407 221 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 407 221 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 A07 221 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 A07 221 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 A07 201 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 A07 201 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 A07 201 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 A07 201 7106 ZENER DIODE U02510B TE-17 C3424 404 084 3801 ELECT 1.01 M 50V D836 A07	C3406	403 343 4603	CERAMIC	0.022U K	50V	<b>.</b>	D672	407 223 5209	DIODE BK46 015-304
C3498 404 087 1200 ELECT 0.10 M 50V D901 407 206 5608 ZENER DIODE U02510B TE-17 C3411 404 094 9300 ELECT 100 M 50V D805 407 206 5608 ZENER DIODE U02510B TE-17 C3411 404 094 3801 ELECT 1 UM 50V D810 407 206 5608 ZENER DIODE U02510B TE-17 C3412 404 094 3801 ELECT 1 UM 50V D810 407 206 5608 ZENER DIODE U02510B TE-17 C3415 404 094 3801 ELECT 1 UM 50V D812 407 206 5608 ZENER DIODE U02510B TE-17 C3416 404 094 3801 ELECT 1 UM 50V D812 407 206 5608 ZENER DIODE U02510B TE-17 C3417 404 094 3801 ELECT 1 UM 50V D825 407 206 5608 ZENER DIODE U02510B TE-17 C3417 404 094 3801 ELECT 1 UM 50V D825 407 206 5608 ZENER DIODE U02510B TE-17 C3417 404 094 3801 ELECT 1 UM 50V D825 407 206 5608 ZENER DIODE U02510B TE-17 C3417 404 094 3801 ELECT 1 UM 50V D826 407 149 0807 DIODE ISSS55 TE-17 C3419 404 094 3801 ELECT 1 UM 50V D826 407 149 0807 DIODE ISSS55 TE-17 C3420 402 609 604 MI-POLYEST 0.33U 83V D828 407 206 5608 ZENER DIODE U02510B TE-17 C3420 400 984 200 ELECT 1 UM 50V D827 407 206 5608 ZENER DIODE U02510B TE-17 C3420 400 984 200 ELECT 1 UM 50V D827 407 206 5608 ZENER DIODE U02510B TE-17 C3420 400 984 200 ELECT 1 UM 50V D828 407 207 506 5608 ZENER DIODE U02510B TE-17 C3420 400 984 200 ELECT 1 UM 50V D828 407 207 506 5608 ZENER DIODE U02510B TE-17 C3420 400 984 200 ELECT 1 UM 50V D835 407 221 7108 ZENER DIODE U02510B TE-17 C3420 400 984 200 ELECT 1 UM 50V D836 407 221 7108 ZENER DIODE U02510B TE-17 C3425 404 984 200 ELECT 1 UM 50V D838 407 206 5608 ZENER DIODE U02510B TE-17 C3426 404 984 800 ELECT 1 UM 50V D838 407 206 5608 ZENER DIODE U02510B TE-17 C3426 404 984 800 ELECT 1 UM 50V D838 407 206 5608 ZENER DIODE U02510B TE-17 C3426 404 984 800 ELECT 1 UM 50V D838 407 206 5608 ZENER DIODE U02510B TE-17 C3426 404 984 800 ELECT 1 UM 50V D838 407 206 5608 ZENER DIODE U02510B TE-17 C3426 A04 984 800 ELECT 1 UM 50V D838 407 206 5608 ZENER DIODE U02510B TE-17 C3426 404 984 800 ELECT 1 UM 50V D838 407 206 5608 ZENER DIODE U02510B TE-17 C3426 404 984 800 ELECT 1 UM 50V D838 407 206 5608 ZENER DIODE U02510B TE-17 C3426 404 984 800 ELECT 1 UM 5									
C3410	C3408	404 087 1200	ELECT						
C3410 40 40 49 390		404 084 4204							
C3411	C3410	404 084 3900							
C3412		404 084 3801							
C3416	C3412	404 084 3801	ELECT	1U M	50V				
C3417	C3415	404 084 2903	ELECT 1	000U M	16V		D816	407 206 5608	ZENER DIODE UDZS10B TE-17
C3418	C3416	404 084 3306	ELECT	470U M	16V		D822	407 206 5608	ZENER DIODE UDZS10B TE-17
C3419		404 084 3801	ELECT	1U M	50V		D825	407 206 5608	ZENER DIODE UDZS10B TE-17
C3420 404 084 5607 MT-POLYEST 0.33LJ 50V D826 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3421 404 084 3900 ELECT 10U M 50V D836 407 221 7106 ZENER DIODE UDZS-108 TE-17 C3425 404 084 3204 Sen CERAMIC 200P K 50V D836 407 221 7106 ZENER DIODE UDZS-108 TE-17 C3425 404 084 3801 ELECT 10 M 50V D838 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3425 404 084 3801 ELECT 10 M 50V D840 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3425 404 084 3801 ELECT 10 M 50V D840 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3428 404 084 3801 ELECT 10 M 50V D840 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3428 404 084 3801 ELECT 10 M 50V D840 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3428 404 084 3801 ELECT 10 M 50V D840 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3428 404 084 3801 ELECT 10 M 50V D841 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3436 404 094 6604 ELECT 4.7U M 50V D857 407 209 1201 ZENER DIODE UDZS-108 TE-17 C3430 404 094 6604 ELECT 4.7U M 50V D857 407 209 1201 ZENER DIODE UDZS-108 TE-17 C3437 404 091 6604 ELECT 4.7U M 25V D858 407 204 406 205 5608 ZENER DIODE UDZS-108 TE-17 C3430 404 094 6604 ELECT 4.7U M 25V D858 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3606 404 089 6500 NP-ELECT 4.7U M 50V D896 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3610 404 094 6304 ZENER DIODE UDZS-108 TE-17 C3610 404 094 6304 ZENER DIODE UDZS-108 TE-17 C3610 404 094 6307 ELECT 0.47U M 50V D897 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3611 404 094 3702 ELECT 0.47U M 50V D899 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3611 404 094 3702 ELECT 0.47U M 50V D899 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3611 404 094 3702 ELECT 0.47U M 50V D899 407 206 5608 ZENER DIODE UDZS-108 TE-17 C3611 404 094 6304 ZENER DIODE UDZS-				1U M			D826	407 149 0807	DIODE 1SS355 TE-17
C3421		404 084 3801					D827	407 206 5608	ZENER DIODE UDZS10B TE-17
C3421								407 206 5608	ZENER DIODE UDZS10B TE-17
C3422								407 221 7106	ZENER DIODE UDZS-TE-1712B
C3424 403 224 5804 CERAMIC 200P K 50V D839 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3425 404 084 3801 ELECT 1U M 50V D840 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3428 404 084 3801 ELECT 1U M 50V D840 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3428 404 084 3801 ELECT 1U M 50V D841 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3428 404 084 3801 ELECT 1U M 50V D841 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3430 404 089 6500 NP-ELECT 4.7U M 50V D857 407 209 1201 ZENER DIDDE LIDZS108 TE-17 C3430 404 089 6500 NP-ELECT 4.7U M 25V D858 407 012 4406 DIDDE ISS133 C3433 404 091 6604 ELECT 4.7U M 25V D858 407 012 4406 DIDDE ISS133 EVENER DIDDE LIDZS108 TE-17 C3430 404 089 6600 NP-ELECT 4.7U M 25V D858 407 209 1201 ZENER DIDDE LIDZS108 TE-17 C3608 404 089 5600 NP-ELECT 4.7U M 25V D858 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3608 403 325 5701 CERAMIC 5600 F 50V D897 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3610 404 084 3702 ELECT 0 .47U M 50V D898 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3611 404 084 3702 ELECT 0 .47U M 50V D899 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3611 404 084 3702 ELECT 0 .47U M 50V D899 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3611 404 084 3702 ELECT 0 .47U M 50V D898 407 206 5608 ZENER DIDDE LIDZS108 TE-17 C3611 404 084 3702 ELECT 0 .47U M 50V D1280 407 012 4406 DIDDE ISS133 C3611 404 084 3702 ELECT 0 .47U M 50V D1280 407 012 4406 DIDDE ISS133 ELECT 1 47U M 15V D1282 407 012 4406 DIDDE ISS133 C3611 404 084 5700 ELECT 0 .47U M 50V D3414 407 029 5266 DIDDE ES807-303-TB ELECT 1 .47U M 15V D3414 407 029 5266 DIDDE ES807-303-TB E-17 C3616 404 084 5806 ELECT 4.7U M 50V D3416 407 229 5706 ES807 ZENER DIDDE LIDZS108 TE-17 C3616 404 084 5806 ELECT 4.7U M 50V D3416 407 229 5706 ES807 ZENER DIDDE EDZS108 TE-17 C3617 404 089 6500 NP-ELECT 4.7U M 50V D3416 407 229 5706 DIDDE ES807-303-TB ELECT 1 .47U M 50V D3416 407 229 5706 ES807 ZENER DIDDE EDZS108 TE-17 C3616 404 084 5806 ELECT 4.7U M 50V D3416 407 229 5706 ES807 ZENER DIDDE EDZS108 TE-17 D3414 407 020 ES807 ZENER DIDDE ES807 305 TD E-17 D3414 407 020 ES807 ZENER DI				10U M				407 221 7106	ZENER DIODE UDZS-TE-1712B
C3425									ZENER DIODE UDZS10B TE-17
C3427									ZENER DIODE UDZS10B TE-17
C3428         404 084 3801         ELECT         1 U M         50V         D841         407 206 5608         ZEMER DIODE UDZS10B TE-17           C3429         404 084 3801         ELECT         1 U M         50V         D857         407 209 1201         ZEMER DIODE UDZS10B TE-17           C3435         404 091 6604         ELECT         4.7 U M         25V         D858         407 012 4406         DIODE 15S133           C3437         404 091 6604         ELECT         4.7 U M         25V         D858         407 012 4406         DIODE 15S133           C3608         404 091 6604         ELECT         4.7 U M         50V         D889         407 206 5608         ZEMER DIODE UDZS10B TE-17           C3608         403 235 5701         CERAMIC         5600P K         50V         D897         407 206 5608         ZEMER DIODE UDZS10B TE-17           C3610         404 684 3702         ELECT 0         4.7 U M         50V         D899         407 206 5608         ZEMER DIODE UDZS10B TE-17           C3611         404 684 3207         ELECT 0         4.7 U M         50V         D899         407 206 5608         ZEMER DIODE UDZS10B TE-17           C3612         404 684 3207         ELECT 0         4.7 U M         50V         D341         407 012 4406<									
C3429									
C3430									
C3435									
C3437									
C3806									
C3808   403 235 5701   CERAMIC   S600P K   50V   D897   407 206 5608   ZENER DIODE UDZS10B TE-17   C3609   403 325 2504   CERAMIC   O.112									
C3809									
C3610									
C3611									
C3612									
C3613									
C3615									
C3616									
C3617									
C3618									
C3619									
C3620							200	.0, 002 0020	5.052 550. 050 .5
C3622 403 224 5606 CERAMIC 2700P K 50V IC651 410 401 0002 IC SI-8050SS LF1113 C3623 403 323 3602 CERAMIC 0.047U K 50V IC652 409 503 7507 IC PQ1CG3032FZ C3624 403 342 9203 TA-SOLID 3.3U K 10V IC653 409 503 7507 IC PQ1CG3032FZ C3626 404 089 6500 NP-ELECT 4.7U M 50V IC661 410 401 0101 IC SI-3090FA LF1113 C3627 403 299 1820 TA-SOLID 10U K 10V IC662 410 330 6007 IC SI-3050FA LF1113 C3628 404 084 3801 ELECT 1U M 50V IC801 410 495 8106 IC M37151M*-***FP C3629 404 089 6500 NP-ELECT 4.7U M 50V IC801 410 495 8106 IC M37151M*-***FP C3630 404 089 6500 NP-ELECT 4.7U M 50V IC802 409 301 2803 IC MN1381-Q C3631 404 085 5606 NP-ELECT 4.7U M 50V IC803 409 495 7103 IC CAT24WC08P C5506 403 279 0106 CERAMIC 0.1U Z 25V IC804 409 400 2704 IC TC75ET08F-TE85L C5507 404 084 3801 ELECT 1U M 50V IC1261 409 444 4722 IC NJM2534M-TE2 IC1262 409 444 4722 IC NJM2534M-TE2 IC1262 409 444 4722 IC NJM2534M-TE2 IC1262 409 444 4722 IC NJM2534M-TE2 IC1263 409 444 4722 IC NJM2534M-TE2 IC1264 409 223 1809 IC NJM2534M-TE2 IC1264 409 223 1809 IC NJM2268M D651 407 223 5209 DIODE RK46 015-304 IC1851 409 223 1809 IC NJM256M IC NJM256M IC1851 409 223 1809 IC NGC74HC04AF D653 407 224 4706 ZENER DIODE 02DZ3.0Z(TPH3 IC2801 409 552 5002 IC TA1318AF D654 407 012 4406 DIODE 1SS133 IC2903 409 051 2722 IC TC4052BF-EL D655 407 223 5209 DIODE RK46 015-304 IC3601 409 572 2205 IC CXA2104S D661 407 012 4406 DIODE 1SS133 IC2903 409 074 9623 IC M51957BFP D663 407 012 4406 DIODE 1SS133 IC3601 409 572 2205 IC CXA2104S D661 407 012 4406 DIODE 1SS133 IC3601 409 572 2205 IC CXA2104S D664 407 012 4406 DIODE 1SS133 IC3601 409 974 9623 IC M51957BFP D663 407 012 4406 DIODE 1SS133								INTEGRATED	CIRCUITS
C3623							IC651	410 401 0002	IC SI-8050SS LF1113
C3624							IC652	409 503 7507	IC PQ1CG3032FZ
C3627	C3624	403 342 9203	TA-SOLID	3.3U K	10V		IC653	409 503 7507	IC PQ1CG3032FZ
C3628	C3626	404 089 6500	NP-ELECT	4.7U M	50V				IC SI-3090FA LF1113
C3629	C3627	403 299 1820	TA-SOLID	10U K	10V				
C3630	C3628	404 084 3801	ELECT	1U M	50V				
C3631		404 089 6500	NP-ELECT	4.7U M	50V				
C5506			NP-ELECT		50V		IC803		
C5507					16V				
DIODES  DIODES  DIODES  DIO1 407 221 7106 ZENER DIODE UDZS-TE-1712B IC1264 409 264 6009 IC NJM2534M-TE2  D101 407 223 5209 DIODE RK46 015-304 IC1851 409 223 1809 IC MC74HC04AF  D653 407 224 4706 ZENER DIODE 02DZ3.0Z(TPH3 IC2801 409 523 5002 IC TA1318AF  D654 407 012 4406 DIODE 1SS133 IC2903 409 051 2722 IC TC4052BF-EL  D655 407 223 5209 DIODE RK46 015-304 IC3401 409 564 4309 IC NJW1142M  D659 407 224 4706 ZENER DIODE 02DZ3.0Z(TPH3 IC3601 409 572 2205 IC CXA2104S  D661 407 012 4406 DIODE 1SS133 IC5506 409 074 9623 IC M51957BFP  D663 407 012 4406 DIODE 1SS133  D664 407 012 4406 DIODE 1SS133									
DIODES         IC1263         409 444 4722         IC NJM2534M-TE2           D101         407 221 7106         ZENER DIODE UDZS-TE-1712B         IC1264         409 264 6009         IC NJM2534M-TE2           D651         407 223 5209         DIODE RK46 015-304         IC1851         409 223 1809         IC MC74HC04AF           D653         407 224 4706         ZENER DIODE 02DZ3.0Z(TPH3         IC2801         409 523 5002         IC TA1318AF           D654         407 012 4406         DIODE 1SS133         IC2903         409 051 2722         IC TC4052BF-EL           D655         407 223 5209         DIODE RK46 015-304         IC3401         409 564 4309         IC NJW1142M           D659         407 224 4706         ZENER DIODE 02DZ3.0Z(TPH3         IC3601         409 572 2205         IC CXA2104S           D661         407 012 4406         DIODE 1SS133         IC5506         409 074 9623         IC M51957BFP           D663         407 012 4406         DIODE 1SS133         IC5506         409 074 9623         IC M51957BFP           D664         407 012 4406         DIODE 1SS133         IC5506         409 074 9623         IC M51957BFP	C5507	404 084 3801	ELECT	1U M	50V				
D101		DIODEC							
D651         407 223 5209         DIODE RK46 015-304         IC1851         409 223 1809         IC MC74HC04AF           D653         407 224 4706         ZENER DIODE 02DZ3.0Z(TPH3         IC2801         409 523 5002         IC TA1318AF           D654         407 012 4406         DIODE 1SS133         IC2903         409 051 2722         IC TC4052BF-EL           D655         407 223 5209         DIODE RK46 015-304         IC3401         409 564 4309         IC NJW1142M           D659         407 224 4706         ZENER DIODE 02DZ3.0Z(TPH3         IC3601         409 572 2205         IC CXA2104S           D661         407 012 4406         DIODE 1SS133         IC5506         409 074 9623         IC M51957BFP           D663         407 012 4406         DIODE 1SS133         IC5506         409 074 9623         IC M51957BFP           D664         407 012 4406         DIODE 1SS133         IC5506         409 074 9623         IC M51957BFP	D101		7ENIED DIOD	ב ווחספ דר	17100				
D653         407 224 4706         ZENER DIODE 02DZ3.0Z(TPH3         IC2801         409 523 5002         IC TA1318AF           D654         407 012 4406         DIODE 1SS133         IC2903         409 051 2722         IC TC4052BF-EL           D655         407 223 5209         DIODE RK46 015-304         IC3401         409 564 4309         IC NJW1142M           D659         407 224 4706         ZENER DIODE 02DZ3.0Z(TPH3         IC3601         409 572 2205         IC CXA2104S           D661         407 012 4406         DIODE 1SS133         IC5506         409 074 9623         IC M51957BFP           D663         407 012 4406         DIODE 1SS133         ICM51957BFP           D664         407 012 4406         DIODE 1SS133         ICM51957BFP					11120				
D654       407 012 4406       DIODE 1SS133       IC2903       409 051 2722       IC TC4052BF-EL         D655       407 223 5209       DIODE RK46 015-304       IC3401       409 564 4309       IC NJW1142M         D659       407 224 4706       ZENER DIODE 02DZ3.0Z(TPH3       IC3601       409 572 2205       IC CXA2104S         D661       407 012 4406       DIODE 1SS133       IC5506       409 074 9623       IC M51957BFP         D663       407 012 4406       DIODE 1SS133       ICM51957BFP         D664       407 012 4406       DIODE 1SS133					TPU2				
D655       407 223 5209       DIODE RK46 015-304       IC3401       409 564 4309       IC NJW1142M         D659       407 224 4706       ZENER DIODE 02DZ3.0Z(TPH3       IC3601       409 572 2205       IC CXA2104S         D661       407 012 4406       DIODE 1SS133       IC5506       409 074 9623       IC M51957BFP         D663       407 012 4406       DIODE 1SS133       ICM51957BFP         D664       407 012 4406       DIODE 1SS133					(11/113				
D659       407 224 4706       ZENER DIODE 02DZ3.0Z(TPH3       IC3601       409 572 2205       IC CXA2104S         D661       407 012 4406       DIODE 1SS133       IC5506       409 074 9623       IC M51957BFP         D663       407 012 4406       DIODE 1SS133         D664       407 012 4406       DIODE 1SS133									
D661 407 012 4406 DIODE 1SS133 IC5506 409 074 9623 IC M51957BFP D663 407 012 4406 DIODE 1SS133 D664 407 012 4406 DIODE 1SS133					ТРИЗ				
D663 407 012 4406 DIODE 1SS133 D664 407 012 4406 DIODE 1SS133									
D664 407 012 4406 DIODE 1SS133							100000	100 017 3020	I IG 100 100 I
100 01006 100100	D665	407 012 4406							

Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
	COILS		<b></b>	405 173 9902	TR 2SC3928A1S
L001	645 008 2894	INDUCTOR, 5.6U K	Q1293	405 014 4509	TR 2SC2412K-T-96-R
	645 016 3104	INDUCTOR, 5.6U K		405 014 4608	TR 2SC2412K-T-96-S
L101	645 008 2894	INDUCTOR, 5.6U K		405 015 8724	
	645 016 3104	INDUCTOR, 5.60 K			TR 2SC2812-L6-TB
L651	645 045 9436	INDUCTOR, 330U K		405 015 8922	TR 2SC2812-L7-TB
L652	645 049 3751	·		405 163 1602	TR 2SC2812N-L6-TB
L653		INDUCTOR, 47UH K		405 163 1701	TR 2SC2812N-L7-TB
	645 047 6655	INDUCTOR, 33U K		405 173 9803	TR 2SC3928A1R
L654	645 047 6655	INDUCTOR, 33U K		405 173 9902	TR 2SC3928A1S
L661	645 049 3751	INDUCTOR, 47UH K	Q1295	405 014 4509	TR 2SC2412K-T-96-R
L801	645 008 2894	INDUCTOR, 5.6U K		405 014 4608	TR 2SC2412K-T-96-S
	645 016 3104	INDUCTOR, 5.6U K		405 015 8724	TR 2SC2812-L6-TB
L802	645 008 2894	INDUCTOR, 5.6U K		405 015 8922	TR 2SC2812-L7-TB
	645 016 3104	INDUCTOR, 5.6U K		405 163 1602	TR 2SC2812N-L6-TB
L803	645 008 2894	INDUCTOR, 5.6U K		405 163 1701	
	645 016 3104	INDUCTOR, 5.6U K			TR 2SC2812N-L7-TB
L804	645 008 2894	INDUCTOR, 5.6U K		405 173 9803	TR 2SC3928A1R
L00 <del>4</del>	645 016 3104		0.4.00	405 173 9902	TR 2SC3928A1S
1.044		INDUCTOR, 5.6U K	Q1297	405 014 4509	TR 2SC2412K-T-96-R
L811	645 006 2490	INDUCTOR, 1U K		405 014 4608	TR 2SC2412K-T-96-S
	645 016 2411	INDUCTOR, 1U K		405 015 8724	TR 2SC2812-L6-TB
L837	645 006 2490	INDUCTOR, 1U K		405 015 8922	TR 2SC2812-L7-TB
	645 016 2411	INDUCTOR, 1U K		405 163 1602	TR 2SC2812N-L6-TB
L1851	645 008 2894	INDUCTOR, 5.6U K		405 163 1701	TR 2SC2812N-L7-TB
	645 016 3104	INDUCTOR, 5.6U K		405 173 9803	TR 2SC3928A1R
				405 173 9903	
	TRANSISTO	RS	00000		TR 2SC3928A1S
Q825	405 134 5925	TR 2SA1037AK T146 R	Q2902	405 014 4509	TR 2SC2412K-T-96-R
	405 147 2205	TR 2SA1037AK T146 S		405 014 4608	TR 2SC2412K-T-96-S
	405 002 0308	TR 2SA1037K-T-96-R		405 015 8724	TR 2SC2812-L6-TB
	405 002 0300			405 015 8922	TR 2SC2812-L7-TB
		TR 2SA1037K-T-96-S		405 163 1602	TR 2SC2812N-L6-TB
	405 002 6726	TR 2SA1179-M6		405 163 1701	TR 2SC2812N-L7-TB
	405 002 6924	TR 2SA1179-M7-TB		405 173 9803	TR 2SC3928A1R
	405 163 1503	TR 2SA1179N-M6-TB		405 173 9902	TR 2SC3928A1S
	405 163 2708	TR 2SA1179N-M7-TB	Q2903	405 014 4509	TR 2SC2412K-T-96-R
	405 173 9605	TR 2SA1235A1E		405 014 4608	TR 2SC2412K-T-96-S
	405 173 9704	TR 2SA1235A1F		405 015 8724	TR 2SC2812-L6-TB
Q851	405 014 4509	TR 2SC2412K-T-96-R		405 015 8922	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K-T-96-S		405 163 1602	
	405 015 8724	TR 2SC2812-L6-TB			TR 2SC2812N-L6-TB
	405 015 8922	TR 2SC2812-L7-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB		405 173 9803	TR 2SC3928A1R
	405 163 1701	TR 2SC2812N-L7-TB		405 173 9902	TR 2SC3928A1S
	405 173 9803		Q2904	405 014 4509	TR 2SC2412K-T-96-R
		TR 2SC3928A1R		405 014 4608	TR 2SC2412K-T-96-S
04000	405 173 9902	TR 2SC3928A1S		405 015 8724	TR 2SC2812-L6-TB
21280	405 014 4509	TR 2SC2412K-T-96-R		405 015 8922	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K-T-96-S		405 163 1602	TR 2SC2812N-L6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 015 8922	TR 2SC2812-L7-TB		405 173 9803	
	405 163 1602	TR 2SC2812N-L6-TB			TR 2SC3928A1R
	405 163 1701	TR 2SC2812N-L7-TB	00000	405 173 9902	TR 2SC3928A1S
	405 173 9803	TR 2SC3928A1R	Q2906	405 014 4509	TR 2SC2412K-T-96-R
	405 173 9903	TR 2SC3928A1S		405 014 4608	TR 2SC2412K-T-96-S
	700 110 0002	111 2303820A13		405 015 8724	TR 2SC2812-L6-TB
11001	40E 04 4 4E00	TD 00004102 T 00 T		405 015 8922	TR 2SC2812-L7-TB
1281	405 014 4509	TR 2SC2412K-T-96-R		405 163 1602	TR 2SC2812N-L6-TB
	405 014 4608	TR 2SC2412K-T-96-S		405 163 1701	TR 2SC2812N-L7-TB
	405 015 8724	TR 2SC2812-L6-TB		405 173 9803	TR 2SC3928A1R
	405 015 8922	TR 2SC2812-L7-TB		405 173 9903	
	405 163 1602	TR 2SC2812N-L6-TB	Q2910		TR 2SC3928A1S
	405 163 1701	TR 2SC2812N-L7-TB	Q2910	405 014 4509	TR 2SC2412K-T-96-R
	405 173 9803	TR 2SC3928A1R		405 014 4608	TR 2SC2412K-T-96-S
	405 173 9803	TR 2SI:RQ28A1D		405 015 8724	TR 2SC2812-L6-TB

Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
Q2910 (Coi	nt.)405 015 8922	TR 2SC2812-L7-TB		405 173 9902	TR 2SC3928A1S
,	405 163 1602	TR 2SC2812N-L6-TB	Q5501	405 014 4509	TR 2SC2412K-T-96-R
	405 163 1701	TR 2SC2812N-L7-TB		405 014 4608	TR 2SC2412K-T-96-S
	405 173 9803	TR 2SC3928A1R		405 015 8724	TR 2SC2812-L6-TB
	405 173 9902	TR 2SC3928A1S		405 015 8922	TR 2SC2812-L7-TB
Q2942	405 014 4509	TR 2SC2412K-T-96-R		405 163 1602	TR 2SC2812N-L6-TB
	405 014 4608	TR 2SC2412K-T-96-S		405 163 1701	TR 2SC2812N-L7-TB
	405 015 8724	TR 2SC2812-L6-TB		405 173 9803	TR 2SC3928A1R
	405 015 8922	TR 2SC2812-L7-TB		405 173 9902	TR 2SC3928A1S
	405 163 1602	TR 2SC2812N-L6-TB	Q5502	405 014 4509	TR 2SC2412K-T-96-R
	405 163 1701	TR 2SC2812N-L7-TB		405 014 4608	TR 2SC2412K-T-96-S
	405 173 9803	TR 2SC3928A1R		405 015 8724	TR 2SC2812-L6-TB
00010	405 173 9902	TR 2SC3928A1S		405 015 8922	TR 2SC2812-L7-TB
Q2943	405 014 4509	TR 2SC2412K-T-96-R		405 163 1602	TR 2SC2812N-L6-TB
	405 014 4608	TR 2SC2412K-T-96-S		405 163 1701	TR 2SC2812N-L7-TB
	405 015 8724	TR 2SC2812-L6-TB		405 173 9803	TR 2SC3928A1R
	405 015 8922 405 163 1602	TR 2SC2812-L7-TB TR 2SC2812N-L6-TB		405 173 9902	TR 2SC3928A1S
	405 163 1701	TR 2SC2812N-L7-TB		RESISTORS	
	405 173 9803	TR 2SC3928A1R	R101	401 024 6700	CARBON 100 JA 1/6W
	405 173 9902	TR 2SC3928A1S	R102	401 024 6700	CARBON 100 JA 1/6W
Q2950	405 014 4509	TR 2SC2412K-T-96-R	R103	401 026 0607	CARBON 270 JA 1/6W
42000	405 014 4608	TR 2SC2412K-T-96-S	R104	401 026 9907	CARBON 4.7K JA 1/6W
	405 015 8724	TR 2SC2812-L6-TB	R106	401 024 6700	CARBON 100 JA 1/6W
	405 015 8922	TR 2SC2812-L7-TB	R634	401 256 6905	MT-GLAZE 680 JA 1/10W
	405 163 1602	TR 2SC2812N-L6-TB	R650	401 256 6905	MT-GLAZE 680 JA 1/10W
	405 163 1701	TR 2SC2812N-L7-TB	R651	401 256 2907	MT-GLAZE 150 JA 1/10W
	405 173 9803	TR 2SC3928A1R	R652	401 162 4002	MT-GLAZE 560 JA 1/10W
	405 173 9902	TR 2SC3928A1S	R653	401 162 2404	MT-GLAZE 1.2K JA 1/10W
Q3410	405 014 4509	TR 2SC2412K-T-96-R	R654	401 256 3706	MT-GLAZE 750 JA 1/10W
	405 014 4608	TR 2SC2412K-T-96-S	R655	401 162 3104	MT-GLAZE 3.3K JA 1/10W
	405 015 8724	TR 2SC2812-L6-TB	R656	401 150 6100	MT-GLAZE 2.2K JA 1/10W
	405 015 8922	TR 2SC2812-L7-TB	R659	401 150 6001	MT-GLAZE 0.000 ZA 1/10W OXIDE-MT 6.8 JA 2W
	405 163 1602	TR 2SC2812N-L6-TB	★ R663 R665	401 069 0404 401 150 6209	OXIDE-MT 6.8 JA 2W MT-GLAZE 1K JA 1/10W
	405 163 1701	TR 2SC2812N-L7-TB	+ R666	401 111 3100	OXIDE-MT 0.82 JA 2W
•	405 173 9803	TR 2SC3928A1R TR 2SC3928A1S	R676	401 150 6209	MT-GLAZE 1K JA 1/10W
Q3420	405 173 9902 405 014 4509	TR 2SC2412K-T-96-R	R801	401 162 4101	MT-GLAZE 5.6K JA 1/10W
U3420	405 014 4608	TR 2SC2412K-T-96-S	R802	401 150 5905	MT-GLAZE 10K JA 1/10W
	405 015 8724	TR 2SC2812-L6-TB	R803	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
	405 015 8922	TR 2SC2812-L7-TB	R804	401 255 6500	MT-GLAZE 100 JA 1/10W
	405 163 1602	TR 2SC2812N-L6-TB	R805	401 024 6700	CARBON 100 JA 1/6W
	405 163 1701	TR 2SC2812N-L7-TB	R806	401 255 6500	MT-GLAZE 100 JA 1/10W
	405 173 9803	TR 2SC3928A1R	R807	401 024 6700	CARBON 100 JA 1/6W
	405 173 9902	TR 2SC3928A1S	R809	401 024 6700	CARBON 100 JA 1/6W
Q3457	405 014 4509	TR 2SC2412K-T-96-R	R810	401 162 3708	MT-GLAZE 4.7K JA 1/10W
	405 014 4608	TR 2SC2412K-T-96-S	R811	401 150 5905	MT-GLAZE 10K JA 1/10W
	405 015 8724	TR 2SC2812-L6-TB	R812	401 024 7004	CARBON 1K JA 1/6W
	405 015 8922	TR 2SC2812-L7-TB	R814	401 255 6500	MT-GLAZE 100 JA 1/10W
	405 163 1602	TR 2SC2812N-L6-TB	R815	401 150 6209	MT-GLAZE 1K JA 1/10W
	405 163 1701	TR 2SC2812N-L7-TB	R816	401 024 6700	CARBON 100 JA 1/6W
	405 173 9803	TR 2SC3928A1R	R817	401 024 6700	CARBON 100 JA 1/6W
00450	405 173 9902	TR 2SC3928A1S	R823 R824	401 150 5905 401 024 7004	MT-GLAZE 10K JA 1/10W CARBON 1K JA 1/6W
Q3459	405 014 4509	TR 2SC2412K-T-96-R			
	405 014 4608	TR 2SC2412K-T-96-S	R826 R827	401 025 7805 401 255 6500	CARBON 2.2K JA 1/6W MT-GLAZE 100 JA 1/10W
	405 015 8724	TR 2SC2812-L6-TB	R828	401 150 5905	MT-GLAZE 100 JA 1/10W
	405 015 8922	TR 2SC2812-L7-TB	R829	401 255 6500	MT-GLAZE 100 JA 1/10W
	405 163 1602 405 163 1701	TR 2SC2812N-L6-TB TR 2SC2812N-L7-TB	R830	401 150 5806	MT-GLAZE 100 JA 1/10W
	405 173 9803	TR 2SC3928A1R	R831	401 150 5806	MT-GLAZE 100K JA 1/10W
	100 170 3000	111 2000320ATD	11001	101-100-0000	W. GENEE TOOK ON THOU

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Schematic Location	Part No.	Des	cription	Schema Locatio	I PARTINO	Des	scription
R833	401 256 3805	MT-GLAZE	1.5K JA 1/10W	R1296	6 401 256 7209	MT-GLAZE	18K JA 1/10W
R834	401 162 3708	MT-GLAZE	4.7K JA 1/10W	R1297	7 401 256 4109	MT-GLAZE	56 JA 1/10W
R835	401 162 3708	MT-GLAZE	4.7K JA 1/10W	R1298	3 401 150 6209	MT-GLAZE	1K JA 1/10W
R836	401 162 3708	MT-GLAZE	4.7K JA 1/10W	R1299	9 401 256 4109	MT-GLAZE	56 JA 1/10W
R837	401 024 7400	CARBON	10K JA 1/6W	R1851	l 401 025 4606	CARBON	18K JA 1/6W
R838	401 024 6700	CARBON	100 JA 1/6W	R1852	401 162 3104	MT-GLAZE	3.3K JA 1/10W
R839	401 162 3708	MT-GLAZE	4.7K JA 1/10W	R1855	401 256 3607	MT-GLAZE	15K JA 1/10W
R840	401 150 5905	MT-GLAZE	10K JA 1/10W	R1856	401 256 7209	MT-GLAZE	18K JA 1/10W
R841	401 162 4101	MT-GLAZE	5.6K JA 1/10W	R1857		MT-GLAZE	68K JA 1/10W
R842	401 150 5905	MT-GLAZE	10K JA 1/10W	R2807		MT-GLAZE	5.6K JA 1/10W
R843	401 024 6700	CARBON	100 JA 1/6W	R2809		MT-GLAZE	360 JA 1/10W
R844	401 024 6700	CARBON	100 JA 1/6W	R2811		MT-GLAZE	0.000 ZA 1/10W
R845	401 024 6700	CARBON	100 JA 1/6W	R2815		CARBON	100 JA 1/6W
R846	401 162 3708	MT-GLAZE	4.7K JA 1/10W	R2816		MT-GLAZE	10K JA 1/10W
R849	401 162 3708	MT-GLAZE	4.7K JA 1/10W	R2819		MT-GLAZE	10K JA 1/10W
R851	401 150 5905	MT-GLAZE	10K JA 1/10W	R2820		CARBON	100 JA 1/6W
R852 R853	401 256 6301	MT-GLAZE	47K JA 1/10W	R2821		MT-GLAZE	100 JA 1/10W
R854	401 256 6301 401 162 3708	MT-GLAZE	47K JA 1/10W	R2822		MT-GLAZE	100 JA 1/10W
R855		MT-GLAZE	4.7K JA 1/10W	R2824		MT-GLAZE	0.000 ZA 1/10W
R856	401 162 4101	MT-GLAZE	5.6K JA 1/10W	R2827		CARBON	100 JA 1/6W
R866	401 162 4101 401 255 6005	MT-GLAZE MT-GLAZE	5.6K JA 1/10W	R2828		MT-GLAZE	10K JA 1/10W
R876	401 233 0003	CARBON	1M JA 1/10W 1K JA 1/6W	R2829		MT-GLAZE	10K JA 1/10W
R880	401 024 7004	MT-GLAZE	6.8K JA 1/10W	R2830 R2901		CARBON	100 JA 1/6W
R881	401 256 7308	MT-GLAZE	6.8K JA 1/10W	R2902		MT-GLAZE	2.2K JA 1/10W
R883	401 256 7308	MT-GLAZE	6.8K JA 1/10W	R2903		MT-GLAZE CARBON	10K JA 1/10W 1K JA 1/6W
R886	401 150 5905	MT-GLAZE	10K JA 1/10W	R2904		MT-GLAZE	10K JA 1/10W
R887	401 150 5905	MT-GLAZE	10K JA 1/10W	R2906		CARBON	47 JA 1/6W
R894	401 150 6209	MT-GLAZE	1K JA 1/10W	R2907		MT-GLAZE	12K JA 1/10W
R895	401 024 7004	CARBON	1K JA 1/6W	R2908		MT-GLAZE	12K JA 1/10W
R896	401 024 6700	CARBON	100 JA 1/6W	R2909		MT-GLAZE	47 JA 1/10W
R897	401 024 6700	CARBON	100 JA 1/6W	R2910		MT-GLAZE	2.2K JA 1/10W
R898	401 024 6700	CARBON	100 JA 1/6W	R2916		CARBON	47 JA 1/6W
R899	401 024 6700	CARBON	100 JA 1/6W	R2917		MT-GLAZE	12K JA 1/10W
R1262	401 256 2709	MT-GLAZE	75 JA 1/10W	R2918		MT-GLAZE	12K JA 1/10W
R1263	401 027 6608	CARBON	75 JA 1/6W	R2919	401 256 5601	MT-GLAZE	47 JA 1/10W
R1264	401 024 7004	CARBON	1K JA 1/6W	R2920	401 150 6100	MT-GLAZE	2.2K JA 1/10W
R1265	401 256 2709	MT-GLAZE	75 JA 1/10W	R2921		CARBON	1K JA 1/6W
R1266	401 027 6608	CARBON	75 JA 1/6W	R2922		MT-GLAZE	2.2K JA 1/10W
R1267	401 256 1702	MT-GLAZE	33K JA 1/10W	R2926		CARBON	47 JA 1/6W
R1268	401 256 2709	MT-GLAZE	75 JA 1/10W	R2927		MT-GLAZE	12K JA 1/10W
R1269	401 027 6608	CARBON	75 JA 1/6W	R2928		MT-GLAZE	12K JA 1/10W
R1270	401 024 6700	CARBON	100 JA 1/6W	R2929		MT-GLAZE	47 JA 1/10W
R1271	401 024 6700	CARBON	100 JA 1/6W	R2930		MT-GLAZE	2.2K JA 1/10W
R1272	401 024 6700	CARBON	100 JA 1/6W	R2931	401 256 2709	MT-GLAZE	75 JA 1/10W
R1279	401 150 6209	MT-GLAZE	1K JA 1/10W	R2932		MT-GLAZE	75 JA 1/10W
R1280	401 256 4109	MT-GLAZE	56 JA 1/10W	R2933		MT-GLAZE	75 JA 1/10W
R1281	401 256 6301	MT-GLAZE	47K JA 1/10W	R2940		MT-GLAZE	12K JA 1/10W
R1282	401 150 5905	MT-GLAZE	10K JA 1/10W	R2941	401 256 0408	MT-GLAZE	12K JA 1/10W
R1283	401 162 3005	MT-GLAZE	22K JA 1/10W	R2942		MT-GLAZE	47 JA 1/10W
R1284	401 024 7400	CARBON	10K JA 1/6W	R2943		MT-GLAZE	2.2K JA 1/10W
R1285	401 256 1702	MT-GLAZE	33K JA 1/10W	R2944	401 026 9303	CARBON	47 JA 1/6W
R1286 R1287	401 256 7209	MT-GLAZE	18K JA 1/10W	R2945	401 256 2709	MT-GLAZE	75 JA 1/10W
R1287 R1288	401 256 1702	MT-GLAZE	33K JA 1/10W	R2946	401 256 0408	MT-GLAZE	12K JA 1/10W
R1289	401 256 4109 401 256 7209	MT-GLAZE MT-GLAZE	56 JA 1/10W	R2947	401 256 0408	MT-GLAZE	12K JA 1/10W
R1299	401 256 1702	MT-GLAZE	18K JA 1/10W	R2948	401 256 5601	MT-GLAZE	47 JA 1/10W
R1290	401 256 4109	MT-GLAZE	33K JA 1/10W 56 JA 1/10W	R2949 R2950	401 150 6100 401 026 9303	MT-GLAZE CARBON	2.2K JA 1/10W
R1291	401 256 4109	MT-GLAZE	56 JA 1/10W	R2950 R2951	401 026 9303	MT-GLAZE	47 JA 1/6W 12K JA 1/10W
R1295	401 150 6209	MT-GLAZE	1K JA 1/10W	R2952	401 150 6100	MT-GLAZE	
111230	701 100 0203	WITTULALE	IN UM I/IUW	n230%	401 100 0100	WITGLAZE	2.2K JA 1/10W

Schematic Location	Part No.	Des	cription	Schematic Location	Part No.	Des	cription	!
R2953	401 026 9303	CARBON	47 JA 1/6W	PO	WER / DEFLE	CTION P	BOAR	RD.
R2954	401 256 2709	MT-GLAZE	75 JA 1/10W					
R2955	401 256 2709	MT-GLAZE	75 JA 1/10W		CAPACITORS		0.011.04	COLL
R2956	401 256 2709	MT-GLAZE	75 JA 1/10W	C401	403 050 6600	ELECT	3.3U M	50V
R2957	401 256 5601	MT-GLAZE	47 JA 1/10W	C402	403 148 1609	ELECT	470U M	50V
R2958	401 256 2709	MT-GLAZE	75 JA 1/10W	★ C403	403 247 5003	CERAMIC	470P K	1K
R2959	401 256 0408	MT-GLAZE	12K JA 1/10W	★ C404	403 222 1907	CERAMIC	2200P K	1K
R2960	401 256 2709	MT-GLAZE	75 JA 1/10W	0.405	403 263 6305	CERAMIC	2200P K	1K 16V
R3411	401 150 5905	MT-GLAZE	10K JA 1/10W	C405	403 334 4209	ELECT	2200U M	16V 1K
R3412	401 150 5905	MT-GLAZE	10K JA 1/10W	C408	403 364 5405	CERAMIC	150P K	1.5K
R3413	401 024 6700	CARBON	100 JA 1/6W	★ C411	403 348 5625	MT-POLYPR MT-POLYPR		1.5K
R3414	401 024 6700	CARBON	100 JA 1/6W	★ C412	403 348 5625			500V
R3415	401 255 6500	MT-GLAZE	100 JA 1/10W	★ C414	403 076 0507	CERAMIC	2200P K 820P K	360V
R3416	401 150 6209	MT-GLAZE	1K JA 1/10W	★ C415	403 324 3106	CERAMIC	2700P K	500V
R3417	401 255 6500	MT-GLAZE	100 JA 1/10W	★ C416	403 076 1405	CERAMIC	68P J	500V 500V
R3422	401 150 5905	MT-GLAZE	10K JA 1/10W	★ C417	403 036 5207 404 091 6406	CERAMIC ELECT	220U M	6.3V
R3423	401 150 5905	MT-GLAZE	10K JA 1/10W	C421		MT-POLYPR		250V
R3424	401 024 6700	CARBON	100 JA 1/6W	★ C423	403 349 3105	MT-POLTER		250V 250V
R3425	401 150 6209	MT-GLAZE	1K JA 1/10W		403 376 2706 403 372 6203	MT-POLYPR		250V
R3426	401 024 6700	CARBON	100 JA 1/6W 560 JA 1/10W	★ C424	403 372 6203	MT-POLYPR		250V
R3434	401 162 4002	MT-GLAZE MT-GLAZE	100K JA 1/10W	× 0424	403 376 2706	MT-POLYPR		250V
R3435 R3436	401 150 5806 401 162 4002	MT-GLAZE	560 JA 1/10W		403 370 2700	MT-POLYPR		250V
R3437	401 150 5806	MT-GLAZE	100K JA 1/10W	C460	403 372 0203	MT-POLYES		100V
R3458	401 150 6209	MT-GLAZE	1K JA 1/10W	★ C462	403 084 3527	POLYPRO	6800PJ	630V
R3460	401 150 6209	MT-GLAZE	1K JA 1/10W	★ C463	403 084 3527	POLYPRO	6800P J	630V
R3601	401 150 5205	MT-GLAZE	10K JA 1/10W	★ C464	403 188 0808	MT-POLYES		100V
R3602	401 150 5905	MT-GLAZE	10K JA 1/10W	★ C465	403 188 0808	MT-POLYES		100V
R3603	401 025 7409	CARBON	220 JA 1/6W	★ C466	403 188 0808	MT-POLYES		100V
R3604	401 025 7409	CARBON	220 JA 1/6W	C468	403 258 8505	NP-ELECT	22U M	16V
R3608	401 255 6005	MT-GLAZE	1M JA 1/10W	★ C470	403 084 3527	POLYPRO	6800P J	630V
R3609	401 150 5806	MT-GLAZE	100K JA 1/10W	C471	403 063 7809	POLYESTER	0.082U K	50V
R3611	401 256 7308	MT-GLAZE	6.8K JA 1/10W		403 312 3507	POLYESTER	0.082U K	50V
R3613	401 265 4008	MT-GLAZE	62K JA 1/10W	C472	403 059 6205	POLYESTER	0.022U K	50V
R3622	401 162 3104	MT-GLAZE	3.3K JA 1/10W		403 312 0506	POLYESTER	0.022U K	50V
R3623	401 255 6401	MT-GLAZE	3K JA 1/10W	C482	403 259 9907	ELECT	47U M	160V
R3628	401 256 7605	MT-GLAZE	3.9K JA 1/10W	C483	403 059 3808	POLYESTER	2200P K	50V
R5501	401 256 0408	MT-GLAZE	12K JA 1/10W		403 312 0308	POLYESTER	2200P K	50V
R5502	401 150 5905	MT-GLAZE	10K JA 1/10W	C484	404 084 4204	ELECT	4.7U M	50V
R5503	401 150 5905	MT-GLAZE	10K JA 1/10W	C493	404 056 5307	NP-ELECT	2.2U M	100V
R5504	401 256 6301	MT-GLAZE	47K JA 1/10W	C504	403 209 7205	ELECT	2200U M	25V
R5505	401 256 6301	MT-GLAZE	47K JA 1/10W	C505	403 148 0404	ELECT	1000U M	25V
R5506	401 162 3005	MT-GLAZE	22K JA 1/10W	C507	403 148 1401	ELECT	220U M	50V
R5507	401 024 7400	CARBON	10K JA 1/6W	C508	403 161 <b>8</b> 302	MT-POLYES		100V
				C510	403 036 2503	CERAMIC	47P K	
	MISCELLAN			C513	403 075 8009	CERAMIC	0.01U K	
A100	610 312 3240		MAIN-H3ELM -	C515	404 084 4006	ELECT	2.2U M	50V
★ A101	645 064 2555	TUNER, TU/II		★ C608	403 247 5003	CERAMIC	470P K	1K
X2809	645 046 9213	OSC, CERAM			403 269 1809	CERAMIC	470P K	1K
X8219	645 026 8434	USG, CRYSTA	AL 8.000MHZ		403 232 0501	CERAMIC	470P K	1K
				★ C609	404 096 2809	ELECT	680U M	200V
				C613	403 148 1708	ELECT POLVEDO	100U M	35V
				C614	403 083 4307	POLYPRO	0.022U J	400V 50V
				C615	403 138 9905	POLYESTER	470P J 470P J	50V 50V
				0010	403 276 9102	POLYESTER	1200P J	50V
				C616	403 057 5309	POLYESTER POLVESTER	1200P J	50V
				0010	403 179 3702	POLYESTER CERAMIC	0.01U Z	50V 50V
				C619 C622	403 069 8305	ELECT	2200U M	25V
				C624	404 085 4500 404 096 2403	ELECT	470U M	160V
				UU24	404 030 Z403	LLLUI	47.00 181	1004

Schematic Location	Part No.	De	escription		Schematic Location	Part No.	Description
C625	403 266 5008	CERAMIC	2700P K	11/	l <u>L</u>	407.400.0004	751175 5105 7117
0020	403 232 0402	CERAMIC	2700F K	1K	D504	407 100 0204	ZENER DIODE MTZJ36A
C626	403 232 0402			1K		407 100 0303	ZENER DIODE MTZJ36B
C628A		ELECT	3300U M	16V		407 100 0402	ZENER DIODE MTZJ36C
	404 096 2403	ELECT	470U M	160V	D508	408 008 2406	DIODE 1N4148
C629	403 196 4201	ELECT	3300U M	16V		407 013 4306	DIODE 1S2076A
<b>★</b> C633	404 088 7706	CERAMIC	1500P M	250V		407 013 7109	DIODE 1S2473
	404 088 7805	CERAMIC	1500P M	250V	D509	407 063 9108	ZENER DIODE MTZJ6.8B
★ C635	404 088 7706	CERAMIC	1500P M	250V		407 099 5709	ZENER DIODE MTZJ6.8C
	404 088 7805	CERAMIC	1500P M	250V	D510	408 008 2406	DIODE 1N4148
C640	404 092 1905	ELECT	100U M	50V		407 013 4306	DIODE 1S2076A
C641	403 271 9602	CERAMIC	1000P K	1K		407 013 7109	DIODE 1S2473
	403 262 1806	CERAMIC	1000P K	1K	D511	407 118 2207	ZENER DIODE 1Z75
C642	404 092 2001	ELECT	470U M	50V	D512	407 118 2207	ZENER DIODE 1Z75
C644	404 074 9103	ELECT	220U M	160V	D513	407 063 8606	ZENER DIODE MTZJ5.1A
C656	404 087 3105	ELECT	220 M	50V		407 099 5204	ZENER DIODE MTZJ5.1B
C686	403 247 5003	CERAMIC	470P K	1K		407 063 8705	ZENER DIODE MTZJ5.10
	403 269 1809	CERAMIC	470P K	1K	D514	407 063 8606	ZENER DIODE MTZJ5.16 ZENER DIODE MTZJ5.1A
	403 232 0501	CERAMIC	470P K	1K	0014	407 099 5204	
		02111 111110	47 OF 10	111			ZENER DIODE MTZJ5.1B
	DIODES				1 DC10	407 063 8705	ZENER DIODE MTZJ5.1C
D401	407 222 4401	ZENER DIOD	)F 17150		★ D612	407 231 2801	PHOTO COUPLE PC123YC2
D402	408 008 2406	DIODE 1N41			D613	407 006 0100	DIODE ERA91-02
5.02	407 013 4306	DIODE 1820			D614	407 006 0100	DIODE ERA91-02
	407 013 7109				D615	407 099 3309	ZENER DIODE MTZJ13C
D411	407 142 5908	DIODE 1S24				407 054 4808	ZENER DIODE RD13EB3
D411		DIODE FMP-			D616	408 008 2406	DIODE 1N4148
	407 157 0806	DIODE RS4F				407 013 4306	DIODE 1S2076A
D413	407 063 9603	ZENER DIOD				407 013 7109	DIODE 1S2473
. 5464	407 099 6003	ZENER DIOC			D617	408 008 2406	DIODE 1N4148
★ D421	407 158 1307	ZENER DIOE				407 013 4306	DIODE 1S2076A
★ D422	407 158 1307	ZENER DIOC			D618	408 008 2406	DIODE 1N4148
D428	407 099 8007	ZENER DIOD				407 013 4306	DIODE 1S2076A
	407 055 1905	ZENER DIOD	E RD20EB3			407 013 7109	DIODE 1S2473
D429	408 008 2406	DIODE 1N41	48		D621	407 106 2806	DIODE RUSYX
	407 013 4306	DIODE 1S20	76A		D623	408 008 2406	DIODE 1N4148
	407 013 7109	DIODE 1S247	73		5020	407 013 4306	DIODE 182076A
D460	408 008 2406	DIODE 1N414	48			407 013 7109	DIODE 1S2473
	407 013 4306	DIODE 1S207	76A		D624	407 168 6507	DIODE FMX-G12S
	407 013 7109	DIODE 1S247			D625	407 191 3900	
D461	407 221 5003	DIODE FMC-(	G28SL		D627		DIODE FML-G16S
D462	407 099 6102	ZENER DIOD			D631	407 168 6507	DIODE FMX-G12S
D467	408 008 2406	DIODE 1N414			0001	407 007 7603	DIODE EU2
	407 013 4306	DIODE 1S207			Dage	407 007 7801	DIODE EU2Z
	407 013 7109	DIODE 18247			D635	407 099 9509	ZENER DIODE MTZJ30B
D468	408 008 2406	DIODE 18247			D641	407 007 7306	DIODE EU01Z
5400	407 013 4306	DIODE 18207			D642	407 099 9509	ZENER DIODE MTZJ30B
						407 056 0204	ZENER DIODE RD30EB2
D404	407 013 7109	DIODE 1S247			D643	407 222 4401	ZENER DIODE 1Z150
D481	407 124 6404	DIODE ERA18	3-04		D649	408 008 2406	DIODE 1N4148
	407 007 6606	DIODE ES1				407 013 4306	DIODE 1S2076A
	407 124 5506	DIODE RMPG				407 013 7109	DIODE 1S2473
D482	407 011 4407	DIODE TVR10			D652	408 008 2406	DIODE 1N4148
D486	408 008 2406	DIODE 1N414	8			407 013 4306	DIODE 182076A
	407 013 4306	DIODE 1S207				407 013 7109	DIODE 152473
	407 013 7109	DIODE 1S247	3		D656	407 106 2806	DIODE 132473 DIODE RU3YX
D501	407 005 7308	DIODE EM01Z			D695		
	407 005 8602	DIODE ERA15			DOSO	407 129 3002	DIODE ERA22-06
	407 088 6502	DIODE MPGO				407 007 7108	DIODE EU01A
D502	407 118 2207	ZENER DIODE				INITEONATES	OIDOLUTO
D502	407 100 0204				1 10504	INTEGRATED	
2000	407 100 0204	ZENER DIODE			★ IC501	409 374 0607	IC LA7846N
		ZENER DIODE			★ IC601	409 169 5800	IC SE140NL
	407 100 0402	ZENER DIODE	WHZJ36C		IC602	410 355 9205	IC STR-F6628 LF1351

Schematic		T	-		-				
Location	Part No.		Descriptio	on	Schematic Location	Part No.	Des	scriptio	n
	COILS	· · · · · · · · · · · · · · · · · · ·		····	R428	401 025 1902	CARBON	15K J	A 1/6W
L411	610 236 6440	JUMPER			R429	401 025 5405	CARBON	2.2 J	
L413	610 078 5946	PIPE COP	₹E		★ R461	402 002 9805	FUSIBLE RES		
L414	610 078 6820	PIPE COP	RE .		R462	401 202 1909	MT-FILM	680 F/	
L416	610 078 4635	PIPECOR	E		R464	401 097 3903	MT-FILM	39K F/	
L417	610 078 4635	PIPECOR	Ε		R466	401 053 3008	MT-FILM	470 FA	
L421	645 039 9381	COIL, LIN	EARITY		R467	401 053 2605	MT-FILM	3.3K F/	
L460	645 020 4043	INDUCTO	R, 1500U		R468	401 024 7004	CARBON	1K JA	
★ L461	610 000 0148	COIL			R470	401 025 8208	CARBON	22K JA	
	645 037 8065	INDUCTO	R, 212U		R475	401 097 3903	MT-FILM	39K FA	
★ L462	610 000 0148	COIL			R480	401 006 7701	CARBON	1 JE	
	645 037 8065	INDUCTO	R, 212U		R481	401 006 7701	CARBON	1 JB	
L463	610 078 5946	PIPE COR			R482	401 021 0701	CARBON	56 JA	
L464	610 078 5946	PIPE COR.	E		R487	401 008 2605	CARBON	180K JA	
L610	610 078 5946	PIPE COR	E		R488	401 021 3009	CARBON	5.6K JA	
L613	610 078 5946	PIPE CORI	E		R491	401 012 5708	CARBON	1K JA	
L621	610 078 5946	PIPE CORI	E		R493	401 019 2601	CARBON	39K GA	
	652 000 1725	CORE, PIP	Έ		R494	401 019 2601	CARBON	39K GA	
L623	610 078 5946	PIPE CORI	=		R495	401 024 9602	CARBON	12K GA	
	652 000 1725	CORE, PIP	Ε		★ R497	401 061 0808	OXIDE-MT	3.9 JA	
L624	610 078 5946	PIPE CORE	•		R501	401 026 6906	CARBON	3.9K GA	
	652 000 1725	CORE, PIP	E		★ R503	402 002 3803	FUSIBLE RES		
L625	610 078 5946	PIPE CORE			★ R504	402 061 0201	FUSIBLE RES		
	652 000 1725	CORE, PIP	E		★ R506	401 064 7507	OXIDE-MT	100 JA	1/2VV 2W
L628	610 078 5946	PIPE CORE			R507	401 007 3603	CARBON	12 JA	
	652 000 1725	CORE, PIPI	Ε		★ R508	401 066 3002	OXIDE-MT	2.2 JA	1/2 <b>vv</b> 2W
L641	645 007 8156	INDUCTOR	, 82U K		R509	401 053 4203	MT-FILM	5.6K FA	
	645 005 5423	INDUCTOR	, 82U K		R511	401 011 9004	CARBON	1 JB	1/4W
	<b>TD 1 11010</b>				R512	401 026 6906		3.9K GA	
0.404	TRANSISTO				R513	401 053 4203	MT-FILM	5.6K FA	
Q401	405 136 0205	TR 2SC529			R515	401 027 5502	CARBON	6.8K JA	1/6W
. 0.400	405 136 0304	TR 2SC529			R516	401 026 4605	CARBON	33K JA	1/6W
★ Q402	406 017 4503	TR TT2140			★ R604	401 068 5509	OXIDE-MT	47K JA	2W
Q460	405 029 6307	TR 2SB817			★ R613	401 238 3304	OXIDE-MT	0.18 JA	2W
Q462	405 018 0507	TR 2SC333			★ R615	401 238 3304	OXIDE-MT	0.18 JA	2W
	405 018 0606	TR 2SC333			R616	401 014 2903	CARBON	150 JA	1/4W
Q642	405 011 8401	TR 2SC174			R617	401 018 3807		3.3K JA	
	405 011 8500	TR 2SC1740			R618	401 024 7004	CARBON	1K JA	
	405 011 8609	TR 2SC174	OS-S		R619	401 016 3809		2.2K JA	
	405 012 2002	TR 2SC181	5-GR		R621	401 026 9907			1/6W
	405 012 2309	TR 2SC1815			R622	401 022 2001	CARBON		1/4W
	405 157 0505	TR 2SC5361	VF-NPA		R623	401 027 8602			1/6W
	405 151 8705	TR 2SC536I			R624	401 024 7400	CARBON	10K JA	
	405 020 7501	TR 2SC945A	A-PA		★ R635	401 065 4604	OXIDE-MT	12K JA	2W
	405 020 7709	TR 2SC945/	\-QA		R640	401 024 7707			1/6W
	DEGLOTORO				R641	401 011 2708	CARBON	68K JA	
D.400	RESISTORS				R642	401 025 8208		22K JA	
R402	401 027 2303	CARBON	560 JA		R646	401 024 7400		10K JA	
R405	401 027 2600	CARBON	5.6K JA				CATIDON	ION OA	17000
★ R406	401 064 8702	OXIDE-MT	1K JA	2W		<b>TRANSFORM</b>	IERS		
★ R407 ★ B400	401 068 6902	OXIDE-MT	56 JA	2W	T401	645 041 1083	TRANS, DRIVE		
★ R409 ★ B410	401 069 5607	OXIDE-MT	8.2 JA	2W	<b>★</b> T402	6450637957	TRANS, FLYBAC	CK	
★ R410 + B411	401 062 5109	OXIDE-MT	56 JA	1W	★ T601	645 063 6417	TRANS, POWER		
★ R411	401 063 2008	OXIDE-MT	6.8K JA	1W			,	., . 5202	
R412	401 024 9701	CARBON	12K JA	1/6W					
R416	401 012 4503	CARBON	100 JA	1/4W	8.404	MISCELLANE			
★ R421	401 148 7201	MT-FILM	1.8K FA		A401	610 310 6823	ASSY, PWB, P/D	J-H3GLM	
★ R422	401 052 6802	MT-FILM	10K FA						
★ R423	401 053 2605	MT-FILM	3.3K FA		*				
★ R424	401 067 5302	OXIDE-MT	330 JA	2W					

Schematic Location	Part No.	D	escription		Schematic Location	Part No.	D	escription	1
	FRONT P	C BOARD		<del>-</del>	<b>-</b>	TRANSISTO	ORS .		
	CADAOITOE				Q001	405 011 8401	TR 2SC174		
0004	CAPACITOR					405 011 8500	TR 2SC174	10S-R	
C001	404 084 3900	ELECT	10U M	50V		405 011 8609	TR 2SC174	10S-S	
C006	404 084 4204	ELECT	4.7U M	50V		405 012 2002	TR 2SC181		
C007	404 089 2700	ELECT	100U M	25V		405 012 2101	TR 2SC181	5-0	
C008	403 073 8308	CERAMIC	4700P K	50V		405 012 2309	TR 2SC181	5-Y	
C009	403 073 8308	CERAMIC	4700P K	50V		405 157 0505	TR 2SC536	NF-NPA	
C010	404 089 4100	ELECT	3300U M	25V		405 151 8705	TR 2SC536	NG-NPA	
C011	404 089 4100	ELECT	3300U M	25V		405 020 7501	TR 2SC945	A-PA	
C013	404 084 3900	ELECT	10U M	50V		405 020 7709	TR 2SC945		
C015	404 084 3405	ELECT	1000U M	25V		405 020 7907	TR 2SC945		
★ C600	403 076 4000	CERAMIC	4700P K	500V	Q688	406 000 6804	TR 2SA101	5-GR(SAN)	
★ C601	404 096 0706	MT-POLYES		275V		405 001 7605	TR 2SA101	5-Y(SAN)	
★ C602	403 075 7101	CERAMIC	1000P K	500V		405 004 3208	TR 2SA564		
★ C604 ★ C610	403 075 7101	CERAMIC	1000P K	500V		405 151 3304	TR 2SA608		
C688	404 096 0508	MT-POLYES		275V		405 006 1806	TR 2SA933	S-R	
C689	404 084 2804	ELECT	100U M	16V	Q1611	405 016 9403	TR 2SC306	8	
C1613	403 069 8305	CERAMIC	0.01U Z	50V		55005050			
C1614	404 095 1704	ELECT	2200U M	16V		RESISTORS			
C1615	403 069 8305 404 084 2606	CERAMIC	0.01U Z	50V	R001	401 024 7004	CARBON	1K JA	
C1618	403 069 8305	ELECT	470U M	10V	R002	401 024 7004	CARBON	1K JA	
C1620	403 069 8305	CERAMIC	0.01U Z	50V	R003	401 027 5205	CARBON	680 JA	
C1902	404 084 2705	CERAMIC	0.01U Z	50V	R004	401 027 5205	CARBON	680 JA	
C1903	404 084 2705	ELECT	10U M	16V	★ R007	402 070 4108	WIRE WOU		5W
01903	404 004 2400	ELECT	470U M	6.3V	Doon	402 073 9506	WIRE WOU		5W
	DIODES				R008	401 027 8602	CARBON	8.2K JA	
★ D601	407 124 9801	DIODE RBV-	608		R011 R012	401 026 3905	CARBON	330 JA	
D683	408 008 2406	DIODE 1N41			+ R601	401 027 2600	CARBON	5.6K JA	1/6W
	407 013 4306	DIODE 1S20			★ R602	402 097 5607 401 069 3702	WIRE WOUL		15W
	407 013 7109	DIODE 1924			R603	402 000 1603	OXIDE-MT SOLID	6.8K JA	2W
D687	408 008 2406	DIODE 1N41			11000	402 088 1502	RESISTER	3.3M MA	1/2W
	407 013 4306	DIODE 1S20				402 090 2108	RESISTER	3.3M JA 3.3M JA	1/2W 1/2W
	407 013 7109	DIODE 1S24			R686	401 013 4205	CARBON	120 JA	1/2W
D1611	407 012 4406	DIODE 1881	33		R687	401 025 8208	CARBON	22K JA	
D1612	407 005 8602	DIODE ERA1	5-02		R688	401 024 9701	CARBON	12K JA	
	407 124 5605	DIODE RMP(	306D		R1611	401 027 2600	CARBON	5.6K JA	
D1613	407 005 8602	DIODE ERA1	5-02		R1612	401 026 4605	CARBON	33K JA	
	407 124 5605	DIODE RMP(	306D		R1901	401 024 7400	CARBON	10K JA	
D1614	407 005 8602	DIODE ERA1			R1902	401 024 7004	CARBON	1K JA	
	407 124 5605	DIODE RMPO			R1903	401 025 4200	CARBON	1.8K JA	
D1615	407 005 8602	DIODE ERA1			R1904	401 025 7805	CARBON	2.2K JA	
	407 124 5605	DIODE RMPG			R1905	401 026 7002	CARBON	3.9K JA	
D1901	407 063 9306	ZENER DIOD			R1906	401 027 2600	CARBON	5.6K JA	
	407 057 6502	ZENER DIOD	E RD7.5EB3		R1909	401 024 7004	CARBON	1K JA	
					R1910	401 024 7004	CARBON	1K JA	
IC001	INTEGRATED		_						
IC1611	409 569 1907	IC LA42052-6				SWITCHES			
101011	409 528 6202	IC PQ050ES1	MXP		SW1901	645 006 9673	SWITCH, PU		
	COILS					645 027 7382	SWITCH, PU		
★ LF601	645 012 0589	LINE FILTER				645 052 2284	SWITCH, PU		3)
n Li voi	645 026 8274	LINE FILTER			SW1902	645 006 9673	SWITCH, PU		
★ LF602	645 012 0589	LINE FILTER				645 027 7382	SWITCH, PU		
1. 552	645 026 8274	LINE FILTER				645 052 2284	SWITCH, PU		
L1901	645 008 2894	INDUCTOR, 5	611 K		SW1903	645 006 9673	SWITCH, PUS		
21001	645 016 3104	INDUCTOR, 5				645 027 7382	SWITCH, PUS		
	0.10.010.0104	פ, חטוטטטאוי	.uu N			645 052 2284	SWITCH, PUS	SH (VOL -)	

Schematic Location	Part No.	Description	Schematic Location	Part No.	De	scription	
SW1904	645 006 9673	SWITCH, PUSH (CH ▲)	C1281	403 279 0106	CERAMIC	0.1U Z	25V
3441304	645 027 7382	SWITCH, PUSH (CH ▲)	C1282	404 084 2804	ELECT	100U M	16V
	645 052 2284	SWITCH, PUSH (CH ▲)	C1283	404 084 2804	ELECT	100U M	16V
SW1905	645 006 9673	SWITCH, PUSH (CH ▼)	C7003	403 235 0003	CERAMIC	33P J	50V
	645 027 7382	SWITCH, PUSH (CH ▼)	C7004	403 235 0003	CERAMIC	33P J	50V
	645 052 2284	SWITCH, PUSH (CH ♥)	C7005	404 084 2507	ELECT	47U M	10V
	BAICOELLABI	EOUE	C7009	403 279 0106	CERAMIC	0.1U Z	25V
44000	MISCELLAN	ASSY, PWB, FRONT-H3GLM	C7010	404 085 4203	ELECT	100U M 120P J	10V 50V
A1900	610 311 2145 645 047 6228	UNIT, REMOCON RECEIVER	C7011	403 235 0706	CERAMIC	0.1U Z	25V
A1901	423 030 9704	FUSE 125V 6A	C7012	403 279 0106 403 279 0106	CERAMIC CERAMIC	0.10 Z	25V
★ F601 F601A	645 000 5077	HOLDER, FUSE	C7020	403 224 5507	CERAMIC	22P J	50V
FOUTA	645 016 0479	HOLDER, FUSE	C7021 C7022	404 085 5606	NP-ELECT	22U M	16V
F601B	645 000 5077	HOLDER, FUSE	C7022	404 085 4203	ELECT	100U M	10V
10010	645 016 0479	HOLDER, FUSE	C7030	404 088 5702	ELECT	22U M	16V
★ PS601	408 044 7106	THERMISTOR PTDAA1BF1R5	C7030	404 085 4203	ELECT	100U M	10V
★ RL601	645 040 3583	RELAY	C7032	403 279 0106	CERAMIC	0.1U Z	25V
X 112001	645 059 0306	RELAY	C7033	404 084 4006	ELECT	2.2U M	50V
★ RL602	645 040 3583	RELAY	C7034	404 085 5606	NP-ELECT	22U M	16V
	645 059 0306	RELAY	C7035	403 224 5705	CERAMIC	1000P K	50V
★ T681	645 065 8938	TRANS, POWER	C7036	404 084 6901	NP-ELECT	1U M	50V
★ VA601	408 023 5802	VARISTOR ENC271D-10AS	C7038	403 093 7206	OS-SOLID	22U M	10V
	407 151 8105	VARISTOR 270NR14D	C7039	403 279 0106	CERAMIC	0.1U Z	25V
★ W601	645 023 1698	CORD, POWER	C7041	403 279 0106	CERAMIC	0.1U Z	25V
	645 056 9548	CORD, POWER-2.05MK	C7101	403 093 7206	OS-SOLID	22U M	10V
	AV CELEC	T PC BOARD	C7102	403 093 7206	OS-SOLID	22U M	10V
	AV SELEC	I PC BOARD	C7103	403 279 0106	CERAMIC	0.1U Z	25V
	CAPACITORS	s	C7104	403 224 5507	CERAMIC	22P J	50V
C1001	404 084 2705	ELECT 10U M 16V	C7105	403 224 5507	CERAMIC	22P J	50V
C1002	404 084 4006	ELECT 2.2U M 50V	C7106	403 279 0106	CERAMIC	0.1U Z	25V 25V
C1003	404 084 4006	ELECT 2.2U M 50V	C7107	403 279 0106	CERAMIC OS-SOLID	0.1U Z 22U M	10V
C1004	404 084 2705	ELECT 10U M 16V	C7108	403 093 7206	CERAMIC	0.1U Z	25V
C1005	404 084 4006	ELECT 2.2U M 50V	C7109	403 279 0106	OS-SOLID	10U M	10V
C1006	404 084 4006	ELECT 2.2U M 50V	C7110 C7111	403 093 6209 403 279 0106	CERAMIC	0.1U Z	25V
C1008	404 084 4006	ELECT 2.2U M 50V	C7112	403 279 0106	CERAMIC	0.10 Z	25V
C1009	404 084 4006	ELECT 2.2U M 50V	C7113	403 275 0100	CERAMIC	150P J	50V
C1054	403 279 0106	CERAMIC 0.1U Z 25V	C7115	403 235 0805	CERAMIC	150P J	50V
C1055	404 084 2705	ELECT 10U M 16V	C7116	403 279 0106	CERAMIC	0.1U Z	25V
C1056	403 235 6203	CERAMIC 0.01U Z 50V	C7118	403 314 6209	CERAMIC	2.2U K	16V
C1057	403 279 0106	CERAMIC 0.1U Z 25V	C7119	403 279 0106	CERAMIC	0.1U Z	25V
C1059	404 084 2705	ELECT 10U M 16V	C7120	403 279 0106	CERAMIC	0.1U Z	25V
C1201	404 084 5508	MT-POLYEST 0.1UJ 63V	C7121	403 279 0106	CERAMIC	0.1U Z	25V
C1201	403 237 8007	MT-COMPO 0.1U J 50V ELECT 470U M 10V	C7122	403 279 0106	CERAMIC	0.1U Z	25V
C1204	404 084 2606	ELECT 470U M 10V ELECT 22U M 16V	C7124	403 279 0106	CERAMIC	0.1U Z	25V
C1205	404 088 5702 403 235 4704	CERAMIC 330P K 50V	C7126	404 084 2705	ELECT	10U M	16V
C1206 C1207	403 235 4704	CERAMIC 330P K 50V	C7127	403 279 0106	CERAMIC	0.1U Z	25V
C1207	403 235 4704	CERAMIC 0.01U Z 50V	C7128	403 279 0106	CERAMIC	0.1U Z	25V
C1214	403 235 4704	CERAMIC 330P K 50V	C7129	403 279 0106	CERAMIC	0.1U Z	25V
C1215	403 235 4704	CERAMIC 330P K 50V	C7130	403 279 0106	CERAMIC	0.1U Z	25V 25V
C1231	404 084 2606	ELECT 470U M 10V	C7131	403 279 0106	CERAMIC	0.1U Z	10V
C1235	403 279 0106	CERAMIC 0.1U Z 25V	C7133	403 093 6209	OS-SOLID CERAMIC	10U M 0.1U Z	25V
C1236	404 084 2606	ELECT 470U M 10V	C7134	403 279 0106	OS-SOLID	22U M	10V
C1238	403 235 6203	CERAMIC 0.01U Z 50V	C7135	403 093 7206	CERAMIC	1U K 10	V
C1241	403 235 0003	CERAMIC 33PJ 50V	C7136	403 283 6309 403 309 1400	CERAMIC	1P Z 10V	٧
C1251	403 279 0106	CERAMIC 0.1U Z 25V	C7136	403 336 5600	CERAMIC	1.0U Z	10V
C1252	404 084 3207	ELECT 47U M 16V	C7136	404 084 2507	ELECT	47U M	10V
C1253	404 085 5606	NP-ELECT 22U M 16V	C7137 C7138	404 084 2507	CERAMIC	0.1U Z	25V
C1254	404 085 5606	NP-ELECT 22U M 16V	C7138 C7139	403 279 0106	CERAMIC	0.10 Z	25V
			01138	400 213 0100	ULITABILU	0.10 2	201

Schematic Location	Part No.	Descriptio	n	Schematic Location	Part No.	Description
C7140	404 084 2507	ELECT 47U		IC7103	409 517 6107	IC UPC2925T-E2
C7146	403 279 0106	CERAMIC 0.1U	Z 25V	IC8201	409 449 2901	IC CXA2019AQ
C7147	404 084 2507	ELECT 47U I	M 10V	IC8230	409 441 8426	IC LA7217M-T-TRM
C8201	404 084 2903	ELECT 1000U I	M 16V			
C8202	404 084 3702	ELECT 0.47U I	M 50V		COILS	
C8203	403 235 0904	CERAMIC 180P		L1201	645 008 2276	INDUCTOR, 22U K
C8204	403 234 9700	CERAMIC 12P		L7002	645 040 3101	INDUCTOR, 3.3U M
C8205	403 235 6203	CERAMIC 0.01U		L7002	645 026 1008	INDUCTOR, 3.3U M
C8206	403 235 1406	CERAMIC 470P		L7003	645 040 3101	INDUCTOR, 3.3U M
C8207	403 235 0607	CERAMIC 100P			645 026 1008	INDUCTOR, 3.3U M
C8208	404 084 4204	ELECT 4.7U M		L7004	645 040 3101	INDUCTOR, 3.3U M
C8209	404 084 6901	NP-ELECT 1U N		1.7007	645 026 1008	INDUCTOR, 3.3U M
C8210	403 235 5909	CERAMIC 8200P I		L7007	645 021 1607	INDUCTOR, 10U J
C8211	404 084 3702	ELECT 0.47U N		17004	645 032 8213	INDUCTOR, 10U J
C8212 C8213	403 224 5903	CERAMIC 3300P I		L7061	645 025 7797	INDUCTOR, 120 OHM
C8214	404 084 3801	ELECT 1U N		L7101	645 040 3064	INDUCTOR, 10U K
C8214	403 235 6203 403 279 0106	CERAMIC 0.01U 2		17100	645 026 0964	INDUCTOR, 10U K
C8217	404 084 5508	CERAMIC 0.1U 2		L7102	645 040 3064	INDUCTOR, 10U K
C8217	403 237 8007	MT-POLYEST 0.1U		L7103	645 026 0964	INDUCTOR, 100 K
C8219	404 084 2903			L/ 103	645 040 3064	INDUCTOR, 10U K
C8227	403 235 1307			L7105	645 026 0964	INDUCTOR, 100 K
C8230	404 092 3701			L7106	645 025 7797	INDUCTOR, 120 OHM
C8230	403 219 4904			L7108	645 025 7797 645 025 7797	INDUCTOR, 120 OHM
C8231	403 235 6203	MT-COMPO 0.27U CERAMIC 0.01U 2		L7110	645 025 7797	INDUCTOR, 120 OHM
C8232	403 235 6203	CERAMIC 0.010 Z		L7112	645 040 3101	INDUCTOR, 120 OHM
C8233	403 309 1202	CERAMIC 0.056U k		L/ 1/2	645 026 1008	INDUCTOR, 3.3U M
C8234	403 235 6203	CERAMIC 0.0300 R		L7119	645 021 1621	INDUCTOR, 3.3U M INDUCTOR, 15U J
C8235	403 062 7107	POLYESTER 0.056U K		27170	645 030 5627	INDUCTOR, 150 J
C8235	403 179 0503	POLYESTER 0.056U K		L7120	645 025 7797	INDUCTOR, 120 OHM
C8236	403 235 4704	CERAMIC 330P K		L7121	645 025 7797	INDUCTOR, 120 OHM
C8237	404 084 6901	NP-ELECT 1U M		L7139	645 025 7797	INDUCTOR, 120 OHM
C8238	404 092 3701	MT-POLYEST 0.27U J		L7152	645 025 7797	INDUCTOR, 120 OHM
C8238	403 219 4904	MT-COMPO 0.27U J		L7154	645 025 7797	INDUCTOR, 120 OHM
C8239	403 235 5206	CERAMIC 820P K		L7156	645 025 7797	INDUCTOR, 120 OHM
C8240	404 084 3801	ELECT 1U M		L7162	645 036 3894	INDUCTOR, 220 OHM
C8241	403 057 0601	POLYESTER 0.01U K		L7163	645 036 3894	INDUCTOR, 220 OHM
C8241	403 179 3801	POLYESTER 0.01U K	50V	L7164	645 025 7797	INDUCTOR, 120 OHM
C8242	404 084 3207	ELECT 47U M	16V	L7165	645 025 7797	INDUCTOR, 120 OHM
C8243	404 084 3207	ELECT 47U M	16V	L8201	645 008 2221	INDUCTOR, 2.2U K
	210220			L8203	645 021 1768	INDUCTOR, 6.8U J
24054	DIODES				645 037 1622	INDUCTOR, 6.8U J
01054	407 206 5608	ZENER DIODE UDZS10		L8218	645 008 2221	INDUCTOR, 2.2U K
01057	407 206 5608	ZENER DIODE UDZS101		L8220	401 150 6001	MT-GLAZE 0.000 ZA 1/10
	407 206 5608	ZENER DIODE UDZS101		L8221	401 150 6001	MT-GLAZE 0.000 ZA 1/10
	407 206 5608	ZENER DIODE UDZS108	B TE-17	L8227	645 021 1607	INDUCTOR, 10U J
	407 149 0807	DIODE 188355 TE-17			645 032 8213	INDUCTOR, 10U J
	407 149 0807	DIODE 1SS355 TE-17				
	407 231 8506	ZD UDZS3.0B-TE-17			TD & ALC: CTC	•
	407 149 0807	DIODE 188355 TE-17		04000	TRANSISTOR	
	407 149 0807	DIODE 188355 TE-17		Q1202	405 134 5925	TR 2SA1037AK T146 R
8230	407 149 0807	DIODE 1SS355 TE-17			405 147 2205	TR 2SA1037AK T146 S
					405 002 0308	TR 2SA1037K-T-96-R
	INTEGRATED	CIRCUITS			405 002 0407	TR 2SA1037K-T-96-S
	409 419 5406	IC MM1313BD			405 002 6726	TR 2SA1179-M6
	409 444 4722	IC NJM2534M-TE2			405 002 6924	TR 2SA1179-M7-TB
	409 124 5708	IC L78M09T-TL			405 163 1503	TR 2SA1179N-M6-TB
					405 163 2708	TR 2SA1179N-M7-TB
C7101	409 515 9803	IC UPD64083GF-3BA			405 173 9605	TR 2SA1235A1E

Schematic Location	Part No.	Description	Schemat Location		Descriptio
Q1223	405 134 5925	==::::00;;;;;;;;;;	<u></u>	405 173 9803	TR 2SC3928A1R
	405 147 2205	TR 2SA1037AK T146 S		405 173 9902	
	405 002 0308	TR 2SA1037K-T-96-R	Q7012	405 134 5925	
	405 002 0407	TR 2SA1037K-T-96-S	4,512	405 147 2205	
	405 002 6726	TR 2SA1179-M6			
	405 002 6924	TR 2SA1179-M7-TB		405 002 0308	
	405 163 1503	TR 2SA1179N-M6-TB		405 002 0407	
	405 163 2708	TR 2SA1179N-M7-TB		405 002 6726	
	405 173 9605			405 002 6924	TR 2SA1179-M7-TB
		TR 2SA1235A1E		405 163 1503	TR 2SA1179N-M6-TB
Q1224	405 173 9704	TR 2SA1235A1F		405 163 2708	TR 2SA1179N-M7-TB
Q1224	405 134 5925	TR 2SA1037AK T146 R		405 173 9605	TR 2SA1235A1E
	405 147 2205	TR 2SA1037AK T146 S		405 173 9704	
	405 002 0308	TR 2SA1037K-T-96-R	Q7013		TR 2SA1235A1F
	405 002 0407	TR 2SA1037K-T-96-S	arons	405 134 5925	TR 2SA1037AK T146 I
	405 002 6726	TR 2SA1179-M6		405 147 2205	TR 2SA1037AK T146 S
	405 002 6924	TR 2SA1179-M7-TB		405 002 0308	TR 2SA1037K-T-96-R
	405 163 1503		•	405 002 0407	TR 2SA1037K-T-96-S
	405 163 2708	TR 2SA1179N-M6-TB		405 002 6726	TR 2SA1179-M6
		TR 2SA1179N-M7-TB		405 002 6924	TR 2SA1179-M7-TB
	405 173 9605	TR 2SA1235A1E		405 163 1503	TR 2SA1179N-M6-TB
0.000	405 173 9704	TR 2SA1235A1F		405 163 2708	TR 2SA1179N-M7-TB
Q1232	405 014 4509	TR 2SC2412K-T-96-R		405 173 9605	ID 0044005445
	405 014 4608	TR 2SC2412K-T-96-S			TR 2SA1235A1E
	405 015 8724	TR 2SC2812-L6-TB	Q7020	405 173 9704	TR 2SA1235A1F
	405 015 8922	TR 2SC2812-L7-TB	Q/020	405 134 5925	TR 2SA1037AK T146 R
	405 163 1602	TR 2SC2812N-L6-TB		405 147 2205	TR 2SA1037AK T146 S
	405 163 1701	TR 2SC2812N-L7-TB		405 002 0308	TR 2SA1037K-T-96-R
	405 173 9803			405 002 0407	TR 2SA1037K-T-96-S
	405 173 9902	TR 2SC3928A1R		405 002 6726	TR 2SA1179-M6
Q1233		TR 2SC3928A1S		405 002 6924	TR 2SA1179-M7-TB
21233	405 014 4509	TR 2SC2412K-T-96-R		405 163 1503	TR 2SA1179N-M6-TB
	405 014 4608	TR 2SC2412K-T-96-S		405 163 2708	TR 2SA1179N-M7-TB
	405 015 8724	TR 2SC2812-L6-TB		405 173 9605	TR 2SA1235A1E
	405 015 8922	TR 2SC2812-L7-TB		405 173 9704	
	405 163 1602	TR 2SC2812N-L6-TB	Q7021		TR 2SA1235A1F
	405 163 1701	TR 2SC2812N-L7-TB	Q1021	405 014 4509	TR 2SC2412K-T-96-R
	405 173 9803	TR 2SC3928A1R		405 014 4608	TR 2SC2412K-T-96-S
	405 173 9902	TR 2SC3928A1S		405 015 8724	TR 2SC2812-L6-TB
1234	405 014 4509	TR 2SC2412K-T-96-R		405 015 8922	TR 2SC2812-L7-TB
	405 014 4608	TD 0000440K T 00 0		405 163 1602	TR 2SC2812N-L6-TB
		TR 2SC2412K-T-96-S		405 163 1701	TR 2SC2812N-L7-TB
	405 015 8724	TR 2SC2812-L6-TB		405 173 9803	TR 2SC3928A1R
	405 015 8922	TR 2SC2812-L7-TB		405 173 9902	TR 2SC3928A1S
	405 163 1602	TR 2SC2812N-L6-TB	Q7022	405 134 5925	
	405 163 1701	TR 2SC2812N-L7-TB		405 147 2205	TR 2SA1037AK T146 R
	405 173 9803	TR 2SC3928A1R			TR 2SA1037AK T146 S
	405 173 9902	TR 2SC3928A1S		405 002 0308	TR 2SA1037K-T-96-R
7010	405 134 5925	TR 2SA1037AK T146 R		405 002 0407	TR 2SA1037K-T-96-S
	405 147 2205	TR 2SA1037AK T146 S		405 002 6726	TR 2SA1179-M6
	405 002 0308	TD 2041027KT 00 D		405 002 6924	TR 2SA1179-M7-TB
	405 002 0407	TR 2SA1037K-T-96-R		405 163 1503	TR 2SA1179N-M6-TB
4 4 4 4		TR 2SA1037K-T-96-S		405 163 2708	TR 2SA1179N-M7-TB
	405 002 6726	TR 2SA1179-M6		405 173 9605	TR 2SA1235A1E
	405 002 6924	TR 2SA1179-M7-TB		405 173 9704	TR 2SA1235A1F
	405 163 1503	TR 2SA1179N-M6-TB	Q7023	405 134 5925	
	405 163 2708	TR 2SA1179N-M7-TB	4.020		TR 2SA1037AK T146 R
	105 173 9605	TR 2SA1235A1E		405 147 2205	TR 2SA1037AK T146 S
		TR 2SA1235A1F		405 002 0308	TR 2SA1037K-T-96-R
011 4 4 4 4				405 002 0407	TR 2SA1037K-T-96-S
		TR 2SC2412K-T-96-R		405 002 6726	TR 2SA1179-M6
		TR 2SC2412K-T-96-S		405 002 6924	TR 2SA1179-M7-TB
	105 015 8724	TR 2SC2812-L6-TB			TD 00444709 445 ==
		TR 2SC2812-L7-TB		405 163 1503	TR 2SA1179N-M6-TB
		TR 2SC2812N-L6-TB		405 163 2708	TR 2SA1179N-M7-TB
		TD 0000010N 17 75		405 173 9605	TR 2SA1235A1E
-	00 100 1701	TR 2SC2812N-L7-TB		405 173 9704	TR 2SA1235A1F

Schematic   Location	Part No.	Description	Schematic Location	Part No.	Description
Q7030	405 134 5925	TR 2SA1037AK T146 R	Q7100	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S		405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R		405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S		405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6		405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB		405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB		405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB		405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E		405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F		405 173 9704	TR 2SA1235A1F
Q7031	405 014 4509	TR 2SC2412K-T-96-R	Q7101	405 134 5925	TR 2SA1037AK T146 R
	405 014 4608	TR 2SC2412K-T-96-S		405 147 2205	TR 2SA1037AK T146 S
	405 015 8724	TR 2SC2812-L6-TB		405 002 0308	TR 2SA1037K-T-96-R
	405 015 8922	TR 2SC2812-L7-TB		405 002 0407	TR 2\$A1037K-T-96-\$
	405 163 1602	TR 2SC2812N-L6-TB		405 002 6726	TR 2SA1179-M6
	405 163 1701	TR 2SC2812N-L7-TB		405 002 6924	TR 2SA1179-M7-TB
	405 173 9803	TR 2SC3928A1R		405 163 1503	TR 2SA1179N-M6-TB
	405 173 9902	TR 2SC3928A1S		405 163 2708	TR 2SA1179N-M7-TB
Q7032	405 014 4509	TR 2SC2412K-T-96-R		405 173 9605	TR 2SA1235A1E
Q703Z	405 014 4608	TR 2SC2412K-T-96-S		405 173 9704	TR 2SA1235A1F
	405 015 8724	TR 2SC2812-L6-TB	Q8227	405 014 4509	TR 2SC2412K-T-96-R
	405 015 8724	TR 2SC2812-L0-TB	QUZZI	405 014 4608	TR 2SC2412K-T-96-S
		TR 2SC2812N-L6-TB		405 015 8724	TR 2SC2412-L6-TB
	405 163 1602			405 015 8922	TR 2SC2812-L0-TB
	405 163 1701	TR 2SC2812N-L7-TB		405 163 1602	TR 2SC2812N-L6-TB
	405 173 9803	TR 2SC3928A1R		405 163 1701	TR 2SC2812N-L7-TB
07000	405 173 9902	TR 2SC3928A1S			
Q7033	405 014 4509	TR 2SC2412K-T-96-R		405 173 9803	TR 2SC3928A1R
	405 014 4608	TR 2SC2412K-T-96-S	00000	405 173 9902	TR 2SC3928A1S
	405 015 8724	TR 2SC2812-L6-TB	Q8230	405 014 4509	TR 2SC2412K-T-96-R
	405 015 8922	TR 2SC2812-L7-TB		405 014 4608	TR 2SC2412K-T-96-S
	405 163 1602	TR 2SC2812N-L6-TB		405 015 8724	TR 2SC2812-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB		405 015 8922	TR 2SC2812-L7-TB
	405 173 9803	TR 2SC3928A1R		405 163 1602	TR 2SC2812N-L6-TB
	405 173 9902	TR 2SC3928A1S		405 163 1701	TR 2SC2812N-L7-TB
Q7034	405 134 5925	TR 2SA1037AK T146 R		405 173 9803	TR 2SC3928A1R
	405 147 2205	TR 2SA1037AK T146 S		405 173 9902	TR 2SC3928A1S
	405 002 0308	TR 2SA1037K-T-96-R	Q8231	405 014 4509	TR 2SC2412K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S		405 014 4608	TR 2SC2412K-T-96-S
	405 002 6726	TR 2SA1179-M6		405 015 8724	TR 2SC2812-L6-TB
	405 002 6924	TR 2SA1179-M7-TB		405 015 8922	TR 2SC2812-L7-TB
	405 163 1503	TR 2SA1179N-M6-TB		405 163 1602	TR 2SC2812N-L6-TB
	405 163 2708	TR 2SA1179N-M7-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 173 9605	TR 2SA1235A1E		405 173 9803	TR 2SC3928A1R
	405 173 9704	TR 2SA1235A1F		405 173 9902	TR 2SC3928A1S
Q7035	405 014 4509	TR 2SC2412K-T-96-R	Q8232	405 134 5925	TR 2SA1037AK T146 R
	405 014 4608	TR 2SC2412K-T-96-S		405 147 2205	TR 2SA1037AK T146 S
	405 015 8724	TR 2SC2812-L6-TB		405 002 0308	TR 2SA1037K-T-96-R
	405 015 8922	TR 2SC2812-L7-TB		405 002 0407	TR 2SA1037K-T-96-S
	405 163 1602	TR 2SC2812N-L6-TB		405 002 6726	TR 2SA1179-M6
	405 163 1701	TR 2SC2812N-L7-TB		405 002 6924	TR 2SA1179-M7-TB
	405 173 9803	TR 2SC3928A1R		405 163 1503	TR 2SA1179N-M6-TB
	405 173 9902	TR 2SC3928A1S		405 163 2708	TR 2SA1179N-M7-TB
Q7036	405 014 4509	TR 2SC2412K-T-96-R		405 173 9605	TR 2SA1235A1E
	405 014 4608	TR 2SC2412K-T-96-S		405 173 9704	TR 2SA1235A1F
	405 015 8724	TR 2SC2812-L6-TB	Q8233	405 014 4509	TR 2SC2412K-T-96-R
	405 015 8922	TR 2SC2812-L7-TB		405 014 4608	TR 2SC2412K-T-96-S
	405 163 1602	TR 2SC2812N-L6-TB		405 015 8724	TR 2SC2812-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB		405 015 8922	TR 2SC2812-L7-TB
	405 173 9803	TR 2SC3928A1R		405 163 1602	TR 2SC2812N-L6-TB
	405 173 9902	TR 2SC3928A1S		405 163 1701	TR 2SC2812N-L7-TB

Schematic	l			T		
Location	Part No.	Description	Schematic Location	Part No.	D	escription
Q8233 (Co	nt.)405 173 9803	TR 2SC3928A1R		405 173 9803		
Q8234	405 173 9902 405 014 4509	TR 2SC3928A1S		405 173 9902	TR 2SC392	!8A1S
Q0234	405 014 4608	TR 2SC2412K-T-96-R		DECICTOR		
	405 015 8724	TR 2SC2412K-T-96-S TR 2SC2812-L6-TB	R1001	RESISTOR	MT 04 475	775 14 4400
	405 015 8922	TR 2SC2812-L7-TB	R1002	401 256 2709		
	405 163 1602	TR 25C2812N-L6-TB	R1003	401 162 2909 401 162 3807		220 JA 1/10V
	405 163 1701	TR 2SC2812N-L7-TB	R1003	401 162 2800	MT-GLAZE MT-GLAZE	470K JA 1/10V
	405 173 9803	TR 2SC3928A1R	R1005	401 162 3807	MT-GLAZE	1.8K JA 1/10\
	405 173 9902	TR 2SC3928A1S	R1006	401 162 2800	MT-GLAZE	470K JA 1/10\ 1.8K JA 1/10\
Q8235	405 014 4509	TR 2SC2412K-T-96-R	R1007	401 256 2709	MT-GLAZE	75 JA 1/10/
QUZJJ	405 014 4608	TR 2SC2412K-T-96-S	R1008	401 162 2909	MT-GLAZE	220 JA 1/10
	405 015 8724	TR 2SC2812-L6-TB	R1009	401 162 3807	MT-GLAZE	470K JA 1/10
	405 015 8922	TR 2SC2812-L7-TB	R1010	401 162 2800	MT-GLAZE	1.8K JA 1/10
	405 163 1602	TR 2SC2812N-L6-TB	R1011	401 162 3807	MT-GLAZE	470K JA 1/10
	405 163 1701	TR 2SC2812N-L7-TB	R1012	401 162 2800	MT-GLAZE	1.8K JA 1/10
	405 173 9803	TR 2SC3928A1R	R1015	401 162 3807	MT-GLAZE	470K JA 1/10
	405 173 9902	TR 2SC3928A1S	R1016	401 162 2800	MT-GLAZE	1.8K JA 1/10
Q8236	405 014 4509	TR 2SC2412K-T-96-R	R1017	401 162 3807	MT-GLAZE	470K JA 1/10
	405 014 4608	TR 2SC2412K-T-96-S	R1018	401 162 2800	MT-GLAZE	1.8K JA 1/10
	405 015 8724	TR 2SC2812-L6-TB	R1051	401 256 2709	MT-GLAZE	75 JA 1/10\
	405 015 8922	TR 2SC2812-L7-TB	R1052	401 162 2909	MT-GLAZE	220 JA 1/10\
	405 163 1602	TR 2SC2812N-L6-TB	R1056	401 256 2709	MT-GLAZE	75 JA 1/10\
	405 163 1701	TR 2SC2812N-L7-TB	R1057	401 162 2909	MT-GLAZE	220 JA 1/10\
	405 173 9803	TR 2SC3928A1R	R1058	401 162 3005	MT-GLAZE	22K JA 1/10\
Q8237	405 173 9902 405 134 5925	TR 2SC3928A1S	R1059	401 150 6209	MT-GLAZE	1K JA 1/10\
Q0237	405 147 2205	TR 2SA1037AK T146 R TR 2SA1037AK T146 S	R1060 R1061	401 256 2709	MT-GLAZE	75 JA 1/10\
	405 002 0308	TR 2SA1037K-T-96-R	R1062	401 162 2909 401 256 2709	MT-GLAZE	220 JA 1/10V
	405 002 0407	TR 2SA1037K-T-96-S	R1063	401 162 2909	MT-GLAZE MT-GLAZE	75 JA 1/10V
	405 002 6726	TR 2SA1179-M6	R1064	401 162 3005	MT-GLAZE	220 JA 1/10V 22K JA 1/10V
	405 002 6924	TR 2SA1179-M7-TB	R1065	401 150 6209	MT-GLAZE	1K JA 1/10V
	405 163 1503	TR 2SA1179N-M6-TB	R1202	401 256 4109	MT-GLAZE	56 JA 1/10V
	405 163 2708	TR 2SA1179N-M7-TB	R1203	401 256 4109	MT-GLAZE	56 JA 1/10V
	405 173 9605	TR 2SA1235A1E	R1204	401 256 4109	MT-GLAZE	56 JA 1/10V
	405 173 9704	TR 2SA1235A1F	R1205	401 256 4109	MT-GLAZE	56 JA 1/10V
Q8238	405 134 5925	TR 2SA1037AK T146 R	R1206	401 150 6100	MT-GLAZE	2.2K JA 1/10V
	405 147 2205	TR 2SA1037AK T146 S	R1207	401 150 6100	MT-GLAZE	2.2K JA 1/10V
	405 002 0308	TR 2SA1037K-T-96-R	R1209	401 150 6209	MT-GLAZE	1K JA 1/10W
	405 002 0407	TŖ 2SA1037K-T-96-S	R1214	401 255 6500	MT-GLAZE	100 JA 1/10W
	405 002 6726	TR 2SA1179-M6	R1215	401 255 6500	MT-GLAZE	100 JA 1/10W
	405 002 6924	TR 2SA1179-M7-TB	R1216	401 255 6500	MT-GLAZE	100 JA 1/10W
	405 163 1503	TR 2SA1179N-M6-TB	R1217	401 255 6500	MT-GLAZE	100 JA 1/10W
	405 163 2708 405 173 9605	TR 2SA1179N-M7-TB	R1219	401 256 4109	MT-GLAZE	56 JA 1/10W
	405 173 9005	TR 2SA1235A1E TR 2SA1235A1F	R1220 R1221	401 256 4109	MT-GLAZE	56 JA 1/10W
Q8239	405 014 4509	TR 2SC2412K-T-96-R	R1222	401 150 6209	MT-GLAZE	1K JA 1/10W
GOLOO	405 014 4608	TR 2SC2412K-T-96-S	R1223	401 150 6209 401 150 6209	MT-GLAZE	1K JA 1/10W
	405 015 8724	TR 2SC2812-L6-TB	R1224	401 150 6209	MT-GLAZE MT-GLAZE	1K JA 1/10W
	405 015 8922	TR 2SC2812-L7-TB	R1228	401 256 4109	MT-GLAZE	1K JA 1/10W
	405 163 1602	TR 2SC2812N-L6-TB	R1229	401 256 4109	MT-GLAZE	56 JA 1/10W
	405 163 1701	TR 2SC2812N-L7-TB	R1239	401 256 4109	MT-GLAZE	56 JA 1/10W 56 JA 1/10W
	405 173 9803	TR 2SC3928A1R	R1240	401 150 5905	MT-GLAZE	10K JA 1/10W
	405 173 9902	TR 2SC3928A1S	R1241	401 150 6209	MT-GLAZE	1K JA 1/10W
Q8240	405 014 4509	TR 2SC2412K-T-96-R	R1242	401 256 4109	MT-GLAZE	56 JA 1/10W
	405 014 4608	TR 2SC2412K-T-96-S	R1243	401 150 6209	MT-GLAZE	1K JA 1/10W
	405 015 8724	TR 2SC2812-L6-TB	R1244	401 256 4109	MT-GLAZE	56 JA 1/10W
	405 015 8922	TR 2SC2812-L7-TB	R1245	401 256 4109	MT-GLAZE	56 JA 1/10W
	405 163 1602	TR 2SC2812N-L6-TB	R1246	401 150 6209	MT-GLAZE	1K JA 1/10W
	405 163 1701	TR 2SC2812N-L7-TB	R1247	401 256 4109	MT-GLAZE	
	22 .30 1,01	200201214 27 10	111671	101 400 4103	WITGLAZE	56 JA 1/10W

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Schematic Location	Part No.	Des	scription	Schematic Location	Part No.	De	scription
R7010	401 150 6209	MT-GLAZE	1K JA 1/10W	R8215	401 256 4109	MT-GLAZE	56 JA 1/10W
R7011	401 162 3708	MT-GLAZE	4.7K JA 1/10W	R8216	401 256 4109	MT-GLAZE	56 JA 1/10W
R7012	401 162 4002	MT-GLAZE	560 JA 1/10W	R8217	401 256 4109	MT-GLAZE	56 JA 1/10W
R7013	401 162 4101	MT-GLAZE	5.6K JA 1/10W	R8227	401 150 6209	MT-GLAZE	1K JA 1/10W
R7014	401 150 6209	MT-GLAZE	1K JA 1/10W	R8228	401 162 3005	MT-GLAZE	22K JA 1/10W
R7015	401 162 2909	MT-GLAZE	220 JA 1/10W	R8229	401 162 3005	MT-GLAZE	22K JA 1/10W
R7016	401 256 0002	MT-GLAZE	120 JA 1/10W	R8230	401 162 3807	MT-GLAZE	470K JA 1/10W
R7017	401 162 3609	MT-GLAZE	470 JA 1/10W	R8231	401 255 6005	MT-GLAZE	1M JA 1/10W
R7018	401 256 5601	MT-GLAZE	47 JA 1/10W	R8232	401 150 6100	MT-GLAZE	2.2K JA 1/10W
R7019	401 150 6209	MT-GLAZE	1K JA 1/10W	R8233	401 150 6100	MT-GLAZE	2.2K JA 1/10W
R7020	401 150 6209	MT-GLAZE	1K JA 1/10W	R8234	401 256 3607	MT-GLAZE	15K JA 1/10W
R7021	401 162 3708	MT-GLAZE	4.7K JA 1/10W	R8235	401 256 7308	MT-GLAZE	6.8K JA 1/10W
R7022	401 162 4002	MT-GLAZE	560 JA 1/10W	R8236	401 150 5905	MT-GLAZE	10K JA 1/10W
R7023	401 162 4101	MT-GLAZE	5.6K JA 1/10W	R8237	401 150 6209	MT-GLAZE	1K JA 1/10W
R7024	401 162 2909	MT-GLAZE	220 JA 1/10W	R8238	401 150 5905	MT-GLAZE	10K JA 1/10W
R7025	401 150 6209	MT-GLAZE	1K JA 1/10W	R8239	401 256 3508	MT-GLAZE	150K JA 1/10W
R7026	401 162 3609	MT-GLAZE	470 JA 1/10W	R8240	401 162 4002	MT-GLAZE	560 JA 1/10W
R7027	401 162 2909	MT-GLAZE	220 JA 1/10W	R8241	401 162 3104	MT-GLAZE	3.3K JA 1/10W
R7028	401 256 5601	MT-GLAZE	47 JA 1/10W	R8242	401 150 6209	MT-GLAZE	1K JA 1/10W
R7029	401 150 6209	MT-GLAZE	1K JA 1/10W	R8243	401 256 7605	MT-GLAZE	3.9K JA 1/10W
R7030	401 256 2907	MT-GLAZE	150 JA 1/10W	R8244	401 162 4002	MT-GLAZE	560 JA 1/10W
R7031	401 150 6100	MT-GLAZE	2.2K JA 1/10W	R8245	401 162 4002	MT-GLAZE	560 JA 1/10W
R7032	401 256 6905	MT-GLAZE	680 JA 1/10W	R8246	401 256 7605	MT-GLAZE	3.9K JA 1/10W
R7033	401 256 0309	MT-GLAZE	820 JA 1/10W	R8247	401 150 5905	MT-GLAZE	10K JA 1/10W
R7034	401 150 6100	MT-GLAZE	2.2K JA 1/10W	R8248	401 150 5806	MT-GLAZE	100K JA 1/10W
R7035	401 256 4109	MT-GLAZE	56 JA 1/10W	R8249	401 162 3104	MT-GLAZE	3.3K JA 1/10W
R7036	401 256 7803	MT-GLAZE	390K JA 1/10W		MISCELLANI	POLIC	
R7037	401 162 4101	MT-GLAZE	5.6K JA 1/10W	A1201	610 310 1781	ASSY, PWB,	AV -H3ARM
R7038	401 162 3104	MT-GLAZE	3.3K JA 1/10W	K1001	645 057 1725	TERMINAL,	
R7039	401 162 2909	MT-GLAZE	220 JA 1/10W	K1051	645 041 1847	SOCKET, DI	
R7040	401 255 9501	MT-GLAZE MT-GLAZE	220K JA 1/10W 47K JA 1/10W	T7010	645 028 2454	FILTER, LP	
R7041 R7042	401 256 6301	MT-GLAZE	2.2K JA 1/10W	T7020	645 028 2454	FILTER, LP	
	401 150 6100 401 162 3609	MT-GLAZE	470 JA 1/10W	T7030	645 028 2447	FILTER, LP 6	
R7043	401 150 6209	MT-GLAZE	1K JA 1/10W	X7100	610 221 3126	CRYSTAL O	
R7044 R7045	401 162 3708	MT-GLAZE	4.7K JA 1/10W	X8201	645 024 8788		AL 3.579545MHZ
R7046	401 255 6500	MT-GLAZE	100 JA 1/10W	X8202	610 012 0532		/IC 500.0KHZ
R7047	401 150 6100	MT-GLAZE	2.2K JA 1/10W	X8230	645 006 3459		/IC 500.0KHZ
R7048	401 162 2701	MT-GLAZE	180 JA 1/10W			,	
R7100	401 256 0002	MT-GLAZE	120 JA 1/10W				
R7101	401 162 2909	MT-GLAZE	220 JA 1/10W		VIDEO PC	BOARD	
R7102	401 162 3609	MT-GLAZE	470 JA 1/10W				
R7103	401 150 6209	MT-GLAZE	1K JA 1/10W		CAPACITORS		
R7106	401 162 3708	MT-GLAZE	4.7K JA 1/10W	C2301	404 084 2705	ELECT	10U M 16V
R7107	401 255 6500	MT-GLAZE	100 JA 1/10W	C2302	403 279 0106	CERAMIC	0.1U Z 25V
R7108	401 255 6500	MT-GLAZE	100 JA 1/10W	C2313	404 084 2903	ELECT	1000U M 16V
R7111	401 162 3401	MT-GLAZE	39K JA 1/10W	C2314	404 084 2903	ELECT	1000U M 16V
R7112	401 162 3708	MT-GLAZE	4.7K JA 1/10W	C2315	403 279 0106	CERAMIC	0.1U Z 25V
R7113	401 162 3401	MT-GLAZE	39K JA 1/10W	C2316	403 279 0106	CERAMIC	0.1U Z 25V
R8201	401 256 5304	MT-GLAZE	56K JA 1/10W	C2317	404 085 5002	ELECT	47U M 25V
R8202	401 162 2800	MT-GLAZE	1.8K JA 1/10W	C2318	404 085 4203	ELECT	100U M 10V
R8203	401 152 3206	MT-GLAZE	330 JA 1/10W	C2319	403 279 0106	CERAMIC	0.1U Z 25V
R8205	401 255 6500	MT-GLAZE	100 JA 1/10W	C2320	403 279 0106	CERAMIC	0.1U Z 25V
R8206	401 162 2909	MT-GLAZE	220 JA 1/10W	C2321	404 084 2507	ELECT	47U M 10V
R8208	401 255 6500	MT-GLAZE	100 JA 1/10W	C2323	404 092 9208	ELECT	1000U M 6.3V
R8209	401 255 6500	MT-GLAZE	100 JA 1/10W	C2324	404 092 9208	ELECT	1000U M 6.3V
R8210	401 256 1405	MT-GLAZE	330K JA 1/10W	C2325	403 224 5705	CERAMIC	1000P K 50V
R8211	401 152 3206	MT-GLAZE	330 JA 1/10W	C2327	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R8212	401 256 0101	MT-GLAZE	8.2K JA 1/10W	C2328	404 084 3306	ELECT	470U M 16V
R8213	401 264 1909	MT-GLAZE	10K FA 1/10W	C2329	403 279 0106	CERAMIC	0.1U Z 25V
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Schematic Location	Part No.	art No. Description			Schematic Location	Part No.	Description		
L	404.004.0000		4000000		J <u>L</u>				
C2330 C2331	404 084 2903 404 084 2705	ELECT	1000U M		C2545	404 087 1200	ELECT 0.1U M 50V		
C2332	404 084 2705	ELECT ELECT	10U M		C2613	404 084 2804	ELECT 100U M 16V		
C2332	403 056 7304	POLYESTER	1U M 1000P J			DIODES			
02000	403 178 9200	POLYESTER			D2301	407 092 9526	DIODE COOT OCC TO		
C2334	403 224 6108	CERAMIC	0.01U K		D2301 D2302	407 092 9526 407 149 0807	DIODE SB07-03C-TB		
C2336	403 235 0409	CERAMIC	0.010 K	50V	D2302 D2303	407 149 0807	DIODE 1SS355 TE-17 DIODE 1SS355 TE-17		
C2339	404 084 3108	ELECT	330U M	16V	D2320	407 149 0807	DIODE 188355 TE-17		
C2341	404 085 5002	ELECT	47U M	25V	D2321	407 149 0807	DIODE 188355 TE-17		
C2342	403 354 2803	POLYPRO	0.1U J	50V	D2330	407 092 9526	DIODE SB07-03C-TB		
C2343	404 084 5508	MT-POLYES		63V	D2342	407 092 9526	DIODE SB07-03C-TB		
-	403 237 8007	MT-COMPO	0.1U J	50V	D2343	407 149 0807	DIODE 1SS355 TE-17		
C2344	404 084 5508	MT-POLYES		63V	D2501	407 206 5608	ZENER DIODE UDZS10B TE-17		
	403 237 8007	MT-COMPO	0.1U J	50V	D2502	407 206 5608	ZENER DIODE UDZS10B TE-17		
C2345	403 279 0106	CERAMIC	0.1U Z	25V	D2503	407 206 5608	ZENER DIODE UDZS10B TE-17		
C2346	404 084 3306	ELECT	470U M	16V	D2510	407 149 0807	DIODE 1SS355 TE-17		
C2372	404 084 3207	ELECT	47U M	16V	D2511	407 149 0807	DIODE 188355 TE-17		
C2373	403 279 0106	CERAMIC	0.1U Z	25V					
★ C2380	404 084 3801	ELECT	1U M	50V		INTEGRATED	CIRCUITS		
C2500	404 091 6604	ELECT	4.7U M	25V	IC2301	409 476 8600	IC NJM319M-TE2		
C2501	403 279 0106	CERAMIC	0.1U Z	25V	IC2303	409 124 5708	IC L78M09T-TL		
C2502	404 084 2705	ELECT	10U M	16V	IC2304	409 398 1901	IC L88MS05TL-TL		
C2503	403 234 9007	CERAMIC	5P C	50V	★ IC2501	409 555 0709	IC CXA2180Q		
C2503B	403 234 9007	CERAMIC	5P C	50V	IC2502	409 528 6202	IC PQ050ES1MXP		
C2503R	403 234 9007	CERAMIC	5P C	50V		COILS			
C2505	403 279 0106	CERAMIC	0.1U Z	25V	L2301		INDUCTOR A CULT		
C2506	404 084 2804	ELECT	100U M	16V	L2301	645 040 3101 645 026 1008	INDUCTOR, 3.3U M		
C2507 C2508	403 279 0106	CERAMIC	0.1U Z	25V	L2340	645 008 2276	INDUCTOR, 3.3U M INDUCTOR, 22U K		
C2508 C2509	403 279 0106	CERAMIC	0.1U Z	25V	L2341	645 008 2009	INDUCTOR, 220 K INDUCTOR, 100 K		
C2509 C2510	403 279 0106 403 063 2309	CERAMIC	0.1U Z	25V	L2501	645 008 2009	INDUCTOR, 100 K		
02010	403 179 0107	POLYESTER POLYESTER		50V	L2517	645 008 2009	INDUCTOR, 100 K		
	403 312 3002	POLYESTER		50V	L2520	645 008 2009	INDUCTOR, 100 K		
C2511	403 224 5606	CERAMIC	2700P K	50V 50V					
C2512	403 235 0607	CERAMIC	100P J	50V 50V		TRANSISTOR			
C2513	404 084 3207	ELECT	47U M	16V	<b>★</b> Q2320	405 014 4509	TR 2SC2412K-T-96-R		
C2515	404 084 2705	ELECT	10U M	16V		405 014 4608	TR 2SC2412K-T-96-S		
C2521	403 279 0106	CERAMIC	0.1U Z	25V		405 015 8724	TR 2SC2812-L6-TB		
C2522	403 279 0106	CERAMIC	0.1U Z	25V 25V		405 015 8922	TR 2SC2812-L7-TB		
C2523	403 279 0106	CERAMIC	0.1U Z	25V		405 163 1602	TR 2SC2812N-L6-TB		
C2524	403 279 0106	CERAMIC	0.1U Z	25V		405 163 1701	TR 2SC2812N-L7-TB		
C2525	403 279 0106	CERAMIC	0.1U Z	25V		405 173 9803	TR 2SC3928A1R		
C2526	403 279 0106	CERAMIC	0.1U Z	25V	00000	405 173 9902	TR 2SC3928A1S		
C2527	403 325 4706	CERAMIC (	0.047U K	25V	Q2330	405 014 4509	TR 2SC2412K-T-96-R		
C2530	404 084 5706	MT-POLYEST		63V		405 014 4608	TR 2SC2412K-T-96-S		
	403 256 0808	MT-COMPO	0.47U J	50V		405 015 8724	TR 2SC2812-L6-TB		
C2531	404 084 4006	ELECT	2.2U M	50V		405 015 8922	TR 2SC2812-L7-TB		
C2532	403 279 0106	CERAMIC	0.1U Z	25V		405 163 1602 405 163 1701	TR 2SC2812N-L6-TB		
C2533	404 092 9208		1000U M	6.3V		405 163 1701 405 173 9803	TR 2SC2812N-L7-TB		
C2534	404 084 5508	MT-POLYEST	0.1UJ	63V		405 173 9803	TR 2SC3928A1R TR 2SC3928A1S		
Oncor	403 237 8007	MT-COMPO	0.1U J	50V		405 014 4509	TR 2SC3928ATS TR 2SC2412K-T-96-R		
C2535	404 084 5508	MT-POLYEST	0.1UJ	63V		405 014 4608	TR 2SC2412K-T-96-S		
COEOC	403 237 8007	MT-COMPO	0.1U J	50V		405 015 8724	TR 2SC2812-L6-TB		
C2536	404 084 5508	MT-POLYEST	0.1UJ	63V		405 015 8922	TR 2SC2812-L6-1B		
00507	403 237 8007	MT-COMPO	0.1U J	50V		405 163 1602	TR 2SC2812N-L6-TB		
C2537	403 279 0106	CERAMIC	0.1U Z	25V		405 163 1701	TR 2SC2812N-L7-TB		
C2538	403 279 0106	CERAMIC	0.1U Z	25V		405 173 9803	TR 2SC3928A1R		
	403 279 0106	CERAMIC	0.1U Z	25V			TR 2SC3928A1S		
C2543	404 087 1200	ELECT	0.1U M	50V	·	0000	EUUUUZUATO		
C2544	404 087 1200	ELECT	0.1U M	50V					

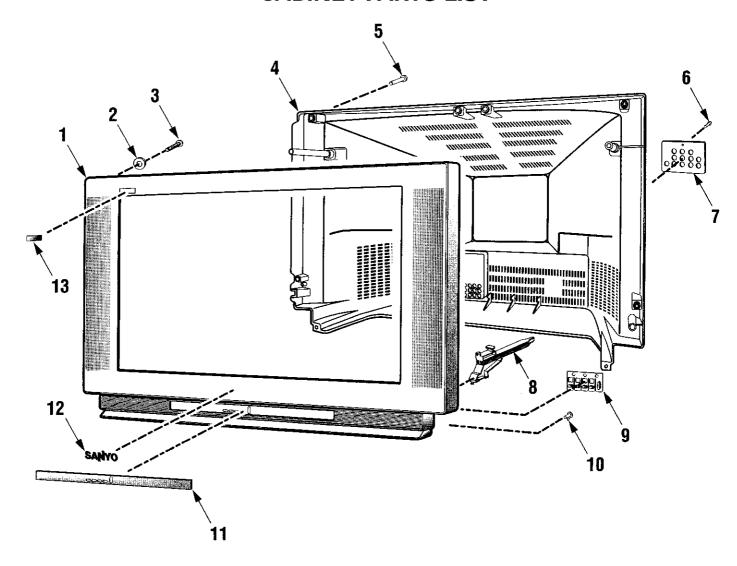
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Schematic Location	Part No.	Description	Schematic Location	Part No.	Description	
02333	405 134 5925	TR 2SA1037AK T146 R	Q2506	405 014 4509	TR 2SC2412K-T-96-R	
	405 147 2205	TR 2SA1037AK T146 S		405 014 4608	TR 2SC2412K-T-96-S	
	405 002 0308	TR 2SA1037K-T-96-R		405 015 8724	TR 2SC2812-L6-TB	
	405 002 0407	TR 2SA1037K-T-96-S		405 015 8922	TR 2SC2812-L7-TB	
	405 002 6726	TR 2SA1179-M6		405 163 1602	TR 2SC2812N-L6-TB	
	405 002 6924	TR 2SA1179-M7-TB		405 163 1701	TR 2SC2812N-L7-TB	
	405 163 1503	TR 2SA1179N-M6-TB		405 173 9803	TR 2SC3928A1R	
	405 163 2708	TR 2SA1179N-M7-TB		405 173 9902	TR 2SC3928A1S	
	405 173 9605	TR 2SA1235A1E	Q2513	405 134 5925	TR 2SA1037AK T146 R	
	405 173 9704	TR 2SA1235A1F		405 147 2205	TR 2SA1037AK T146 S	
Q2501	405 134 5925	TR 2SA1037AK T146 R		405 002 0308	TR 2SA1037K-T-96-R	
	405 147 2205	TR 2SA1037AK T146 S		405 002 0407	TR 2SA1037K-T-96-S	
	405 002 0308	TR 2SA1037K-T-96-R		405 002 6726	TR 2SA1179-M6	
	405 002 0407	TR 2SA1037K-T-96-S		405 002 6924	TR 2SA1179-M7-TB	
	405 002 6726	TR 2SA1179-M6		405 163 1503	TR 2SA1179N-M6-TB	
	405 002 6924	TR 2SA1179-M7-TB		405 163 2708	TR 2SA1179N-M7-TB	
	405 163 1503	TR 2SA1179N-M6-TB		405 173 9605	TR 2SA1235A1E	
	405 163 2708	TR 2SA1179N-M7-TB		405 173 9704	TR 2SA1235A1F	
	405 173 9605	TR 2SA1235A1E				
00.00	405 173 9704	TR 2SA1235A1F	50004	RESISTORS		
Q2502	405 134 5925	TR 2SA1037AK T146 R	R2301	401 255 6500	MT-GLAZE 100 JA 1/10W	
	405 147 2205	TR 2SA1037AK T146 S	R2302	401 256 0101	MT-GLAZE 8.2K JA 1/10W	
	405 002 0308	TR 2SA1037K-T-96-R	R2303	401 150 6209	MT-GLAZE 1K JA 1/10W	
	405 002 0407	TR 2SA1037K-T-96-S	R2304	401 150 6209	MT-GLAZE 1K JA 1/10W	
	405 002 6726	TR 2SA1179-M6	R2305	401 256 0101	MT-GLAZE 8.2K JA 1/10W	
	405 002 6924	TR 2SA1179-M7-TB	R2306	401 256 0101	MT-GLAZE 8.2K JA 1/10W	
	405 163 1503	TR 2SA1179N-M6-TB	R2309	401 291 7608	MT-GLAZE 10 FA 1/2W	
	405 163 2708	TR 2SA1179N-M7-TB	R2310	401 255 6500	MT-GLAZE 100 JA 1/10W	
	405 173 9605	TR 2SA1235A1E	R2312	401 255 6500	MT-GLAZE 100 JA 1/10W	
00500	405 173 9704	TR 2SA1235A1F	R2313	401 255 6500	MT-GLAZE 100 JA 1/10W	
Q2503	405 134 5925	TR 2SA1037AK T146 R	R2314 R2315	401 255 6500	MT-GLAZE 100 JA 1/10W MT-GLAZE 100 JA 1/10W	
	405 147 2205	TR 2SA1037AK T146 S	R2317	401 255 6500 401 264 1909	MT-GLAZE 100 JA 1/10W MT-GLAZE 10K FA 1/10W	
	405 002 0308	TR 2SA1037K-T-96-R	R2318	401 256 6004	MT-GLAZE TOK FA 1/10W MT-GLAZE 27K JA 1/10W	
	405 002 0407 405 002 6726	TR 2SA1037K-T-96-S TR 2SA1179-M6	R2319	401 256 0101	MT-GLAZE 27K JA 1/10W	
	405 002 6924	TR 2SA1179-M7-TB	R2320	401 162 3609	MT-GLAZE	
	405 163 1503	TR 2SA1179N-M6-TB	R2321	401 255 6500	MT-GLAZE 100 JA 1/10W	
	405 163 2708	TR 2SA1179N-M0-1B	R2322	401 150 6001	MT-GLAZE 0.000 ZA 1/10W	
	405 173 9605	TR 2SA1235A1E	R2323	403 343 4603	CERAMIC 0.022U K 50V	
	405 173 9704	TR 2SA1235A1F	R2324	401 256 5809	MT-GLAZE 270K JA 1/10W	
Q2504	405 134 5925	TR 2SA1037AK T146 R	R2325	401 150 5905	MT-GLAZE 10K JA 1/10W	
GZ004	405 147 2205	TR 2SA1037AK T146 S	R2326	401 256 1702	MT-GLAZE 33K JA 1/10W	
	405 002 0308	TR 2SA1037K-T-96-R	R2327	401 150 5806	MT-GLAZE 100K JA 1/10W	
	405 002 0407	TR 2SA1037K-T-96-S	R2328	401 162 3708	MT-GLAZE 4.7K JA 1/10W	
	405 002 6726	TR 2SA1179-M6	R2329	401 256 7209	MT-GLAZE 18K JA 1/10W	
	405 002 6924	TR 2SA1179-M7-TB	R2330	401 256 7308	MT-GLAZE 6.8K JA 1/10W	
	405 163 1503	TR 2SA1179N-M6-TB	R2331	401 256 6608	MT-GLAZE 68K JA 1/10W	
	405 163 2708	TR 2SA1179N-M7-TB	R2332	401 162 3005	MT-GLAZE 22K JA 1/10W	
	405 173 9605	TR 2SA1235A1E	R2333	401 256 5908	MT-GLAZE 2.7K JA 1/10W	
	405 173 9704	TR 2SA1235A1F	R2334	401 162 4101	MT-GLAZE 5.6K JA 1/10W	
Q2505	405 134 5925	TR 2SA1037AK T146 R	R2335	401 256 3607	MT-GLAZE 15K JA 1/10W	
4.000	405 147 2205	TR 2SA1037AK T146 S	R2336	401 162 4101	MT-GLAZE 5.6K JA 1/10W	
	405 002 0308	TR 2SA1037K-T-96-R	R2337	401 162 3708	MT-GLAZE 4.7K JA 1/10W	
	405 002 0407	TR 2SA1037K-T-96-S	R2338	401 255 6500	MT-GLAZE 100 JA 1/10W	
	405 002 6726	TR 2SA1179-M6	R2341	401 150 6001	MT-GLAZE 0.000 ZA 1/10W	
	405 002 6726	TR 2SA1179-M7-TB	R2343	401 150 6001	MT-GLAZE 0.000 ZA 1/10W	
	405 163 1503	TR 2SA1179N-M6-TB	R2344	401 150 6001	MT-GLAZE 0.000 ZA 1/10W	
	405 163 2708	TR 2SA1179N-M7-TB	R2345	401 150 6001	MT-GLAZE 0.000 ZA 1/10W	
	405 173 9605	TR 2SA1235A1E	R2346	401 150 6001	MT-GLAZE 0.000 ZA 1/10W	
	405 173 9704	TR 2SA1235A1F		401 255 6500	MT-GLAZE 100 JA 1/10W	
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Schematic Location	Part No.	De	scription	Schematic Location	Part No.	Description	
R2348	401 255 6500	MT-GLAZE	100 JA 1/10W		MISCELLAN	EOUS	
R2349	401 256 5908	MT-GLAZE	2.7K JA 1/10W	A4351	610 310 1798	ASSY, PWB, VIDEO-H3A	BM
R2350	401 255 6500	MT-GLAZE	100 JA 1/10W	X2301	645 047 2794	OSC, CERAMIC 2.696MF	łΖ
R2352	401 255 6500	MT-GLAZE	100 JA 1/10W				
R2353	401 256 6905	MT-GLAZE	680 JA 1/10W		0DT 0001		
R2354	401 162 3104	MT-GLAZE	3.3K JA 1/10W		CRI SOCK	ET PC BOARD	
R2355	401 256 7704	MT-GLAZE	3.9M JA 1/10W		CARACITOR		
R2356	401 256 7803	MT-GLAZE	390K JA 1/10W	0740	CAPACITORS 403 069 8305	CERAMIC 0.01U Z	50V
R2357	401 255 6500	MT-GLAZE	100 JA 1/10W	C710	403 161 9200	MT-POLYEST 0.22U K	250V
R2358	401 255 6500	MT-GLAZÉ	100 JA 1/10W	C711 C721	403 161 9200	MT-POLYEST 0.22U K	250V
R2360	401 162 3708	MT-GLAZE	4.7K JA 1/10W	C721	403 161 9200	MT-POLYEST 0.22U K	250V
R2361	401 150 6100	MT-GLAZE	2.2K JA 1/10W	C733	403 057 3107	POLYESTER 0.1U K	50V
R2362	401 150 6100	MT-GLAZE	2.2K JA 1/10W	0/33	403 181 8207	POLYESTER 0.10 K	50V
R2363	401 255 5800	MT-GLAZE	2K JA 1/10W	<b>★</b> C742	403 245 5609	ELECT 10U M	250V
R2364	401 255 5800	MT-GLAZE	2K JA 1/10W	★ C744	403 077 2807	CERAMIC 1000P Z	2K
R2365	401 162 2909	MT-GLAZE	220 JA 1/10W	C754	404 087 0500	ELECT 220U M	100
R2367	401 256 5304	MT-GLAZE	56K JA 1/10W	0754	404 007 0000	2230 111	,
R2368	401 150 6100	MT-GLAZE	2.2K JA 1/10W		DIODES		
R2369	401 150 6100	MT-GLAZE	2.2K JA 1/10W	D711	407 006 3903	DIODE ERB43-04	
R2371	401 150 5905	MT-GLAZE	10K JA 1/10W		407 011 4407	DIODE TVR1G	
★ R2380	401 150 5905	MT-GLAZE	10K JA 1/10W 0.000 ZA 1/10W	D712	407 006 3903	DIODE ERB43-04	
R2382	401 150 6001	MT-GLAZE	330 JA 1/10W		407 011 4407	DIODE TVR1G	
R2503	401 152 3206	MT-GLAZE	470FA 1/4W	D721	407 006 3903	DIODE ERB43-04	
R2506	401 306 3809 401 152 3206	MT-GLAZE MT-GLAZE	330 JA 1/10W		407 011 4407	DIODE TVR1G	
R2507 R2508	401 152 3206	MT-GLAZE	330 JA 1/10W	D722	407 006 3903	DIODE ERB43-04	
R2510	401 306 3809	MT-GLAZE	470FA 1/4W		407 011 4407	DIODE TVR1G	
R2510	401 306 3809	MT-GLAZE	470FA 1/4W	D731	407 006 3903	DIODE ERB43-04	
R2512	401 150 6209	MT-GLAZE	1K JA 1/10W		407 011 4407	DIODE TVR1G	
R2513	401 255 6500	MT-GLAZE	100 JA 1/10W	D732	407 006 3903	DIODE ERB43-04	
R2514	401 256 1702	MT-GLAZE	33K JA 1/10W	D7.40	407 011 4407	DIODE TVR1G	
R2516	401 150 6209	MT-GLAZE	1K JA 1/10W	D742	407 124 6404	DIODE ERA18-04 DIODE ES1	
R2517	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		407 007 6606 407 124 5506	DIODE RMPG06G	
R2520	401 255 6500	MT-GLAZE	100 JA 1/10W	D75.4	408 008 2406	DIODE 1N4148	
R2522	401 256 1900	MT-GLAZE	3.3M JA 1/10W	D754	407 013 4306	DIODE 182076A	
R2523	401 255 6500	MT-GLAZE	100 JA 1/10W		407 013 7109	DIODE 1S2473	
R2525	401 255 6500	MT-GLAZE	100 JA 1/10W	D755	407 065 1308	ZENER DIODE MTZJ3.68	В
R2527	401 265 1700	MT-GLAZE	4.7K FA 1/10W	D761	407 099 6607	ZENER DIODE MTZJ12B	
R2538	401 150 5905	MT-GLAZE	10K JA 1/10W	Diot	407 054 3207	ZENER DIODE RD12EB2	
R2543	401 150 6209	MT-GLAZE	1K JA 1/10W	D762	407 099 6607	ZENER DIODE MTZJ12B	
R2544	401 150 6209	MT-GLAZE	1K JA 1/10W	5,02	407 054 3207	ZENER DIODE RD12EB2	
R2545	401 150 6209	MT-GLAZE	1K JA 1/10W	D763	407 099 6607	ZENER DIODE MTZJ12B	}
R2546	401 162 2909	MT-GLAZE	220 JA 1/10W		407 054 3207	ZENER DIODE RD12EB2	<u> </u>
R2547	401 150 6209	MT-GLAZE	1K JA 1/10W				
R2548	401 256 4109	MT-GLAZE	56 JA 1/10W 56 JA 1/10W		INTEGRATE		
R2560	401 256 4109	MT-GLAZE MT-GLAZE	56 JA 1/10W	10711	409 542 4406	IC TDA6118JF/N1	
R2561	401 256 4109 401 256 4109	MT-GLAZE	56 JA 1/10W	IC721	409 542 4406	IC TDA6118JF/N1	
R2562 R2616	401 150 6001	MT-GLAZE	0.000 ZA 1/10W	IC731	409 542 4406	IC TDA6118JF/N1	
R2617	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		COILS		
R2624	401 150 6001	MT-GLAZE	0.000 ZA 1/10W	1.710	401 025 7102	CARBON 22 JA 1/6W	
		MT-GLAZE	0.000 ZA 1/10W	L710			
						•	
				L/41	1104 100 040	HADOUTOTI, TOO IX	
			100K JA 1/10W				
R2626 R2962 R2963 R2964 R2968 R2969 R2985 R2986	401 150 6001 401 255 6500 401 255 6500 401 255 6500 401 162 2909 401 162 2909 401 150 5806 401 150 5806	MT-GLAZE MT-GLAZE MT-GLAZE MT-GLAZE MT-GLAZE MT-GLAZE MT-GLAZE MT-GLAZE	100 JA 1/10W 100 JA 1/10W 100 JA 1/10W 220 JA 1/10W 220 JA 1/10W	L711 L721 L731 L741	645 008 0777 645 008 0777 645 008 0777 645 001 4871	INDUCTOR, 12U K INDUCTOR, 12U K INDUCTOR, 12U K INDUCTOR, 10U K	

	T		 Schematic	Part No.	Desc	ription
Schematic Location	Part No.	Description	Location			
L	TRANSISTOR	S		RESISTORS	CARRON	100 JA 1/4W
Q711	405 011 8401	TR 2SC1740S-Q	R701	401 012 4503	CARBON CARBON	100 JA 1/4W
Q/11	405 011 8500	TR 2SC1740S-R	R702	401 012 4503	CARBON	100 JA 1/4W
	405 011 8609	TR 2SC1740S-S	R703	401 012 4503	CARBON	100 JA 1/6W
	405 012 2002	TR 2SC1815-GR	R711	401 024 6700	CARBON	470 JA 1/4W
	405 012 2101	TR 2SC1815-0	R712	401 020 0801 401 027 2105	CARBON	56 JA 1/6W
	405 012 2309	TR 2SC1815-Y	R713	401 027 2105	CARBON	56 JA 1/6W
	405 157 0505	TR 2SC536NF-NPA	R714	401 027 2103	CARBON	100 JA 1/4W
	405 151 8705	TR 2SC536NG-NPA	R716	401 008 6702	CARBON	220 JA 1/2W
	405 020 7501	TR 2SC945A-PA	R717 R719	401 025 4903	CARBON	180K JA 1/6W
	405 020 7709	TR 2SC945A-QA	R721	401 024 6700	CARBON	100 JA 1/6W
	405 020 7907	TR 2SC945A-RA	R721	401 020 0801	CARBON	470 JA 1/4W
Q721	405 011 8401	TR 2SC1740S-Q	R723	401 027 2105	CARBON	56 JA 1/6W
	405 011 8500	TR 2SC1740S-R	R724	401 027 2105	CARBON	56 JA 1/6W
	405 011 8609	TR 2SC1740S-S	R725	401 012 4503	CARBON	100 JA 1/4W
	405 012 2002	TR 2SC1815-GR	R726	401 008 6702	CARBON	220 JA 1/2W
	405 012 2101	TR 2SC1815-0	R727	401 012 5708	CARBON	1K JA 1/4W
	405 012 2309	TR 2SC1815-Y	R729	401 025 4606	CARBON	18K JA 1/6W
	405 157 0505	TR 2SC536NF-NPA	R731	401 024 6700	CARBON	100 JA 1/6W
	405 151 8705	TR 2SC536NG-NPA	R732	401 020 0801	CARBON	470 JA 1/4W
	405 020 7501	TR 2SC945A-PA	R733	401 027 2105	CARBON	56 JA 1/6W
	405 020 7709	TR 2SC945A-QA	R734	401 027 2105	CARBON	56 JA 1/6W
	405 020 7907	TR 2SC945A-RA	R735	401 012 4503	CARBON	100 JA 1/4W
Q731	405 011 8401	TR 2SC1740S-Q	R736	401 008 6702	CARBON	220 JA 1/2W
	405 011 8500	TR 2SC1740S-R	R737	401 012 5708	CARBON	1K JA 1/4W
	405 011 8609	TR 2SC1740S-S	R739	401 012 5708	CARBON	1K JA 1/4W
	405 012 2002	TR 2SC1815-GR TR 2SC1815-0	★ R741	401 068 6209	OXIDE-MT	5.6 JA 2W
	405 012 2101	TR 2SC1815-0	R742	401 024 7707	CARBON	100K JA 1/6W
	405 012 2309	TR 2SC536NF-NPA	R743	401 025 1902	CARBON	15K JA 1/6W
	405 157 0505	TR 2SC536NG-NPA	R744	401 024 7707	CARBON	100K JA 1/6W
	405 151 8705 405 020 7501	TR 2SC945A-PA	★ R745	401 068 5509	OXIDE-MT	47K JA 2W 33 JA 2W
	405 020 7709	TR 2SC945A-QA	★ R746	401 067 4206	OXIDE-MT	= = :
	405 020 7703	TR 2SC945A-RA	R747	401 027 2600	CARBON	5.6K JA 1/6W 1K JA 1/6W
0744	405 020 7301	TR 2SC1740S-Q	R756	401 024 7004	CARBON	390 JA 1/6W
Q741	405 011 8500	TR 2SC1740S-R	R757	401 026 6609	CARBON	10K JA 1/6W
	405 011 8609	TR 2SC1740S-S	R758	401 024 7400	CARBON	10 JA 1/6W
	405 012 2002	TR 2SC1815-GR	R759	401 024 6403	CARBON	10 07 1/011
	405 012 2101	TR 2SC1815-0		MISCELLAN	IFOLIS	
	405 012 2309	TR 2SC1815-Y	4701	610 311 9236	ASSY, PWE	, SOCKET-H3GLM
	405 157 0505	TR 2SC536NF-NPA	A701	645 028 0306	SOCKET, C	
	405 151 8705	TR 2SC536NG-NPA	★ K702	652 001 1472	SOCKET, C	
	405 020 7501	TR 2SC945A-PA	XL710	610 216 4268	FILTER, EN	II 120PF
	405 020 7709	TR 2SC945A-QA	XL710 XL720	610 216 4268		II 120PF
	405 020 7907	TR 2SC945A-RA	XL720 XL730	610 216 4268	FILTER, EN	
Q742	405 029 7106	TR 2SC2271-D	VF1.90	010 E10 1200		
G, IL	405 013 6207	TR 2SC2271-D-CTV				
	405 029 7205	TR 2SC2271-E				
	405 013 6306	TR 2SC2271-E-CTV				
Q743	405 101 5600	TR 2SA1786E-AN				
Q753	406 000 6804	TR 2SA1015-GR(SAN)				
	405 001 7407	TR 2SA1015-0(SAN)				
	405 001 7605	TR 2SA1015-Y(SAN)				
	405 004 3109	TR 2SA564A-Q(CU)				
	405 004 3208	TR 2SA564A-R(CU)				
	405 151 3304	TR 2SA608NF-NPA				
	405 006 1707	TR 2SA933S-Q				
	405 006 1806	TR 2SA933S-R				

Schemat	tic				
Location	l Part No.	Description	Schemat Location		Description
VE	LOCITY MOI	DULATION PC BOAR	RD	405 157 0505	TR 2SC536NF-NPA
	0.4.54.0			405 151 8705	TR 2SC536NG-NPA
04705	CAPACITO			405 020 7501	TR 2SC945A-PA
C1705 C1711	404 092 1905		50V	405 020 7709	TR 2SC945A-QA
01711	403 057 3107 403 181 8207		50V	405 020 7907	TR 2SC945A-RA
C1712	403 161 6207		50V	DECICEODO	
01712	403 179 0909	POLYESTER 0.047U K	50V 50V R1701	RESISTORS	CADDON 400 ta 410
C1713	403 071 5606	CERAMIC 220P K	50V R1707	401 024 6700 401 027 5205	CARBON 100 JA 1/6 CARBON 680 JA 1/6
C1715	403 159 7409		250V R1708	401 015 7808	
C1717	404 084 5508	MT-POLYEST 0.1UJ	63V R1709	401 015 7808	***
	403 237 8007	MT-COMPO 0.1U J	50V R1711	401 027 2105	CARBON 2.7 JA 1/4' CARBON 56 JA 1/6'
C1718	404 084 2507	ELECT 47U M	10V R1716	401 026 3905	CARBON 330 JA 1/6'
C1719	403 259 9006		160V R1720	401 024 9701	CARBON 12K JA 1/6
C1721	404 084 3801	ELECT 1U M	50V R1722	401 026 4605	CARBON 33K JA 1/6
C1722	403 222 0603	ELECT 22U M 1	160V R1723	401 027 2600	CARBON 5.6K JA 1/6\
C1723	403 075 8009		500V R1724	401 027 5908	CARBON 68K JA 1/6\
C1724	403 071 5606	CERAMIC 220P K	50V R1727	401 006 9408	CARBON 10 JB 1/2\
C1748	403 069 8305	CERAMIC 0.01U Z	50V R1728	401 025 3807	CARBON 180 JA 1/6\
C1749	404 084 4303		50V ★ R1730	401 067 5302	OXIDE-MT 330 JA 21
C1750	403 069 8305		50V R1732	401 024 9305	CARBON 1.2K JA 1/6\
C1751	404 084 3900	ELECT 10U M	50V R1733	401 024 7707	CARBON 100K JA 1/6V
	DIODES		R1734	401 024 7707	CARBON 100K JA 1/6V
D1705	407 108 5300	DIODE SB07-03N	R1735 R1736	401 024 9305	CARBON 1.2K JA 1/6V
D1707	407 108 5300	DIODE SB07-03N	n 1730 ★ R1737	401 024 9701 401 065 1801	CARBON 12K JA 1/6V
D1708	407 012 4406	DIODE 1SS133	★ R1737	401 065 1801	OXIDE-MT 12 JA 2V
D1750	407 012 4406	DIODE 1SS133	★ R1742	401 066 6102	OXIDE-MT 12 JA 2V OXIDE-MT 220 JA 2V
D1751	407 012 4406	DIODE 1SS133	★ R1743	402 063 6706	OXIDE-MT 220 JA 2V FUSIBLE RES 270 J- 2V
D1752	407 012 4406	DIODE 1SS133	R1744	401 024 9305	CARBON 1.2K JA 1/6V
	COILS			MISCELLANE	<b>OUE</b>
★ L1708	402 001 6300	FUSIBLE RES 10 J- 1/4W	A1701	610 314 6133	ASSY, PWB, VM-H3GLM
	TRANSISTORS				
Q1702	405 011 8401	TR 2SC1740S-Q		DIGITAL PC	BOARD
	405 011 8500	TR 2SC1740S-R	A900		UNIT, US DIGITAL
	405 011 8609	TR 2SC1740S-S	Nonservica	able part. No discreet d	parts provided for this pc board.
	405 012 2002	TR 2SC1815-GR		,	provided for time per board.
	405 012 2101	TR 2SC1815-0			
	405 012 2309	TR 2SC1815-Y		MISCELLAN	IEOUS
	405 157 0505	TR 2SC536NF-NPA	★ L901	645 064 9240	ASSY, COIL, DEGAUSSING
	405 151 8705	TR 2SC536NG-NPA	<b>★</b> Q900	414 012 7108	CRT W76QEN693X100
	405 020 7501 405 020 7709	TR 2SC945A-PA	60004	414 012 8105	CRT W76QEN693X100
	405 020 7709	TR 2SC945A-QA	SP901	652 001 1311	SPEAKER, 8-5W
Q1706	405 086 8702	TR 2SC945A-RA TR 2SC4159	SP902 ★ W901	652 001 1311 610 312 7743	SPEAKER, 8-5W
	405 086 8801	TR 2SC4159	NA NA	610 311 6440	ASSY, WIRE GND CONNECTOR
Q1707	405 086 8702	TR 2SC4159	1471	010 311 0440	VM BOARD HOLDER IP
	405 086 8801	TR 2SC4159			
Q1708	405 100 1603	TR 2SA1606-D-RA			
	405 100 1702	TR 2SA1606-E-RA			!
Q1709	405 108 4903	TR 2SA1837-LB			
Q1711	405 108 5009	TR 2SC4793-LB			
Q1712	405 011 8401	TR 2SC1740S-Q			
	405 011 8500	TR 2SC1740S-R			:
	405 011 8609	TR 2SC1740S-S			
	405 012 2002	TR 2SC1815-GR			й (
	405 012 2101	TR 2SC1815-0			
	405 012 2309	TR 2SC1815-Y			

## **CABINET PARTS LIST**



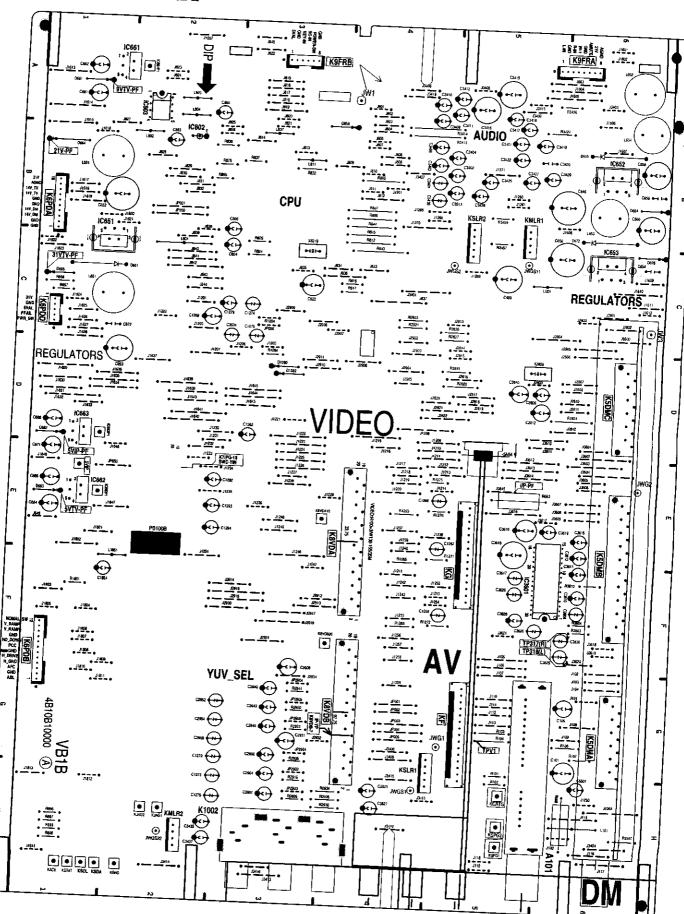
#### **CABINET PARTS LIST**

#### **ACCESSORY PARTS LIST**

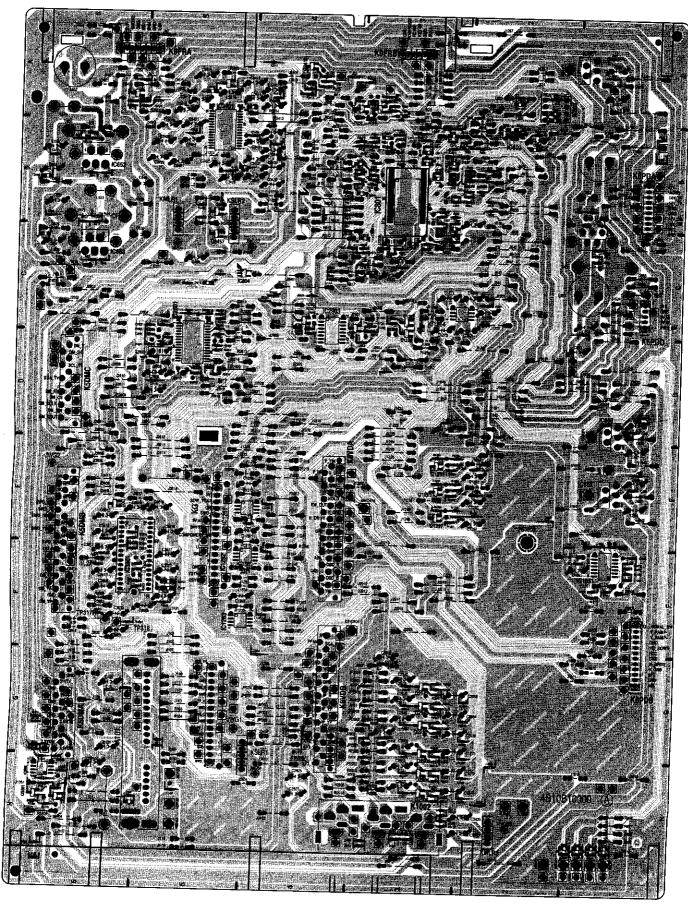
KEY NO.	PARTS NO.	DESCRIPTION	KEY NO.	PARTS NO.	DESCRIPTION	
1	610 311 0103	CABINET FRONT-H3GLM		610 312 2304	OWNER'S MANUAL-H3GLM	
2	610 268 9648	CRT MTG WASHER (4 USED)		645 065 6897	ASSY, REMOCON FXYA	
3	412 053 3905	CRT MTG SCREW (4 USED)		610 312 0744	RC-BATTERY LID-FXYA	
4	610 311 0127	CABINET BACK-H3GLM				
5	412 064 4304	SCREW 4X14 (10 USED)				
6	411 026 2303	SCREW 3X10 (5 USED)	,			
7	610 313 2440	DEC AV SHEET-H3ELM	AV SHEET-H3ELM			
8	610 311 6402	CHASSIS RAIL- (3) G7FAM	IL- (3) G7FAM			
9	610 311 9908	ASSY, BUTTON ÙNIT-G7FAM				
10	610 289 5148	CAP RC-G8EAM				
11	610 311 9397	DEC PLATE	EC PLATE			
12	645 067 1333	SANYO BADGE	IYO BADGE			
13	610 313 4093	DEC SHEET VIZON				

## COMPONENT AND TESTPOINT LOCATIONS

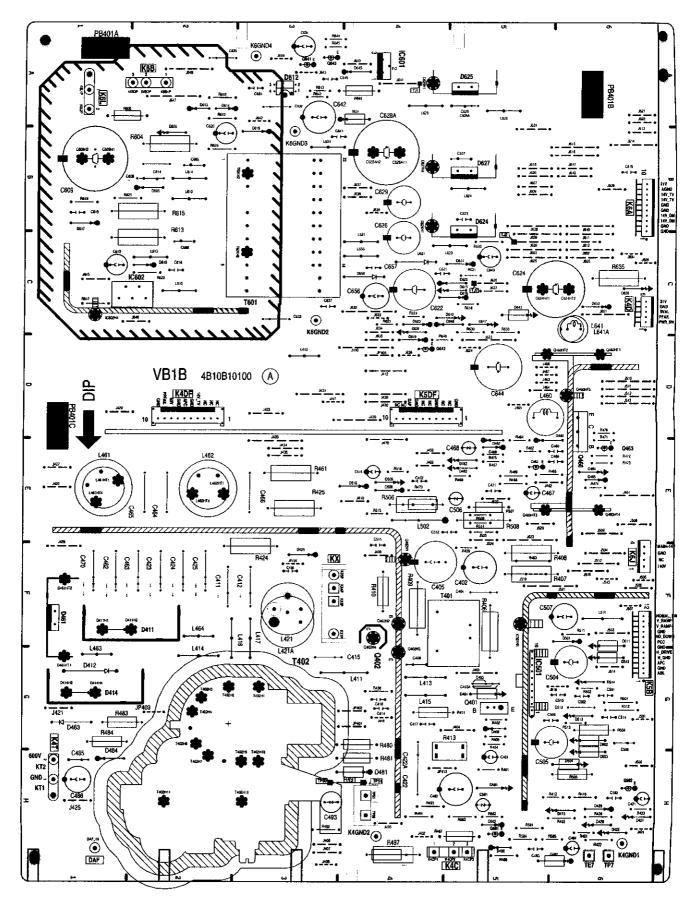
## MAIN BOARD PARTS SIDE



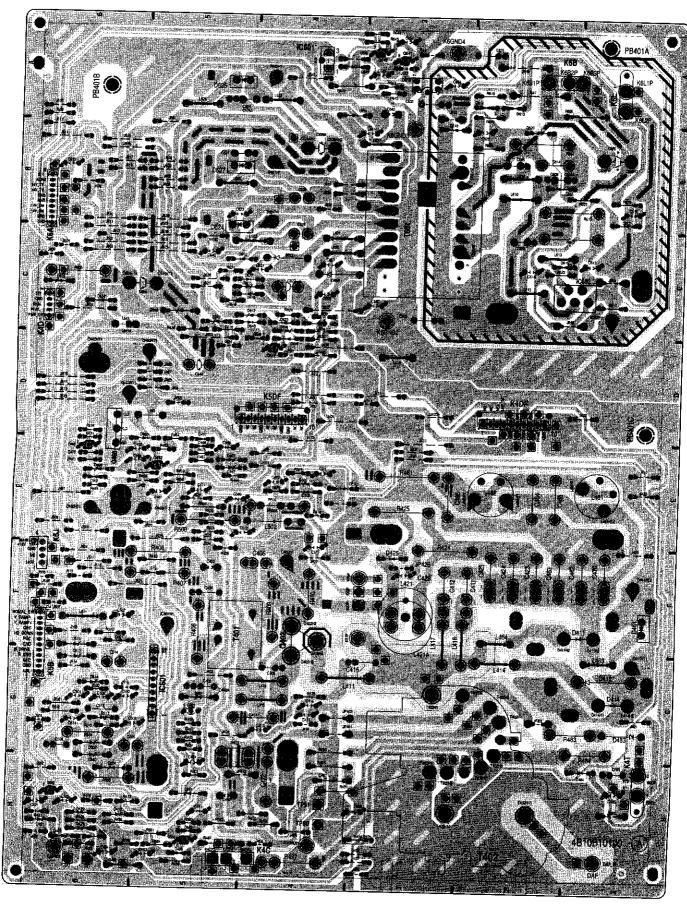
#### MAIN BOARD FOIL SIDE



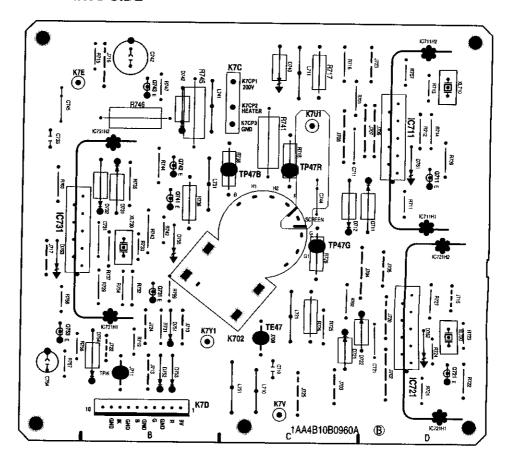
#### **POWER / DEFLECTION BOARD PARTS SIDE**



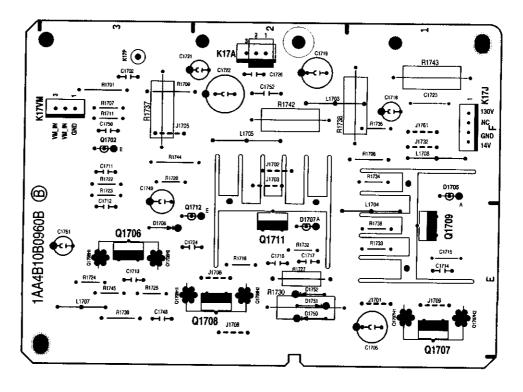
## POWER / DEFLECTION BOARD FOIL SIDE

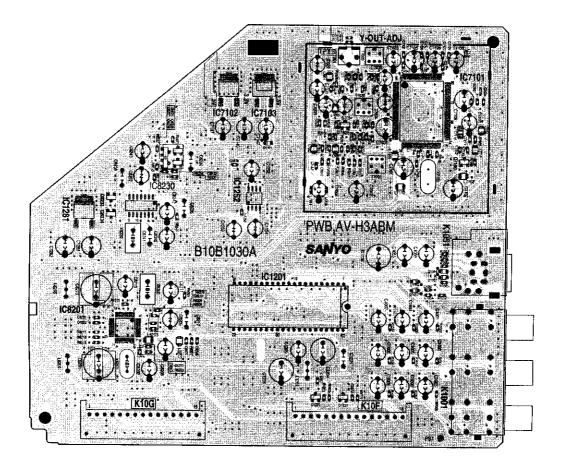


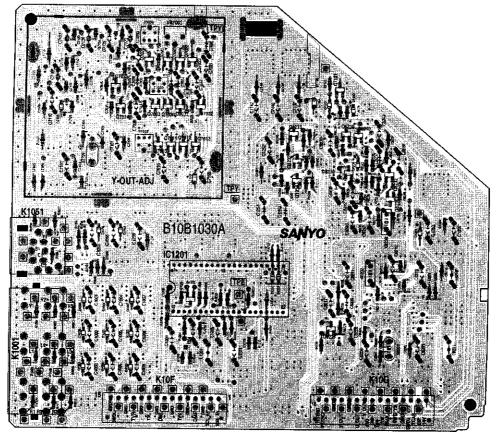
#### **CRT SOCKET BOARD PARTS SIDE**



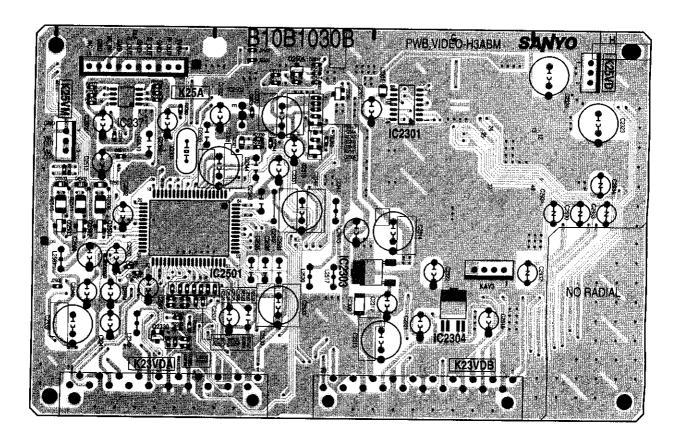
#### VM BOARD PARTS SIDE

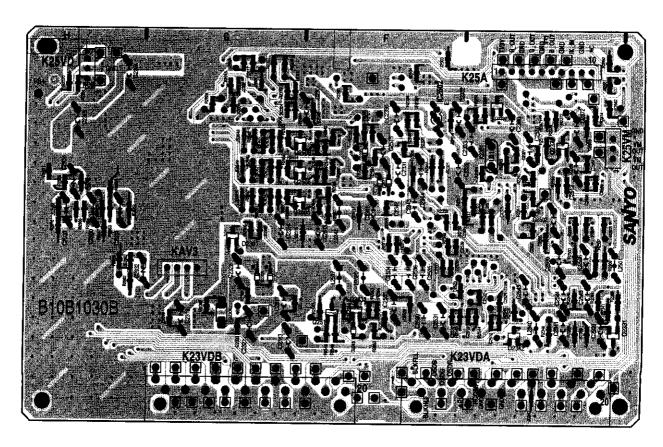




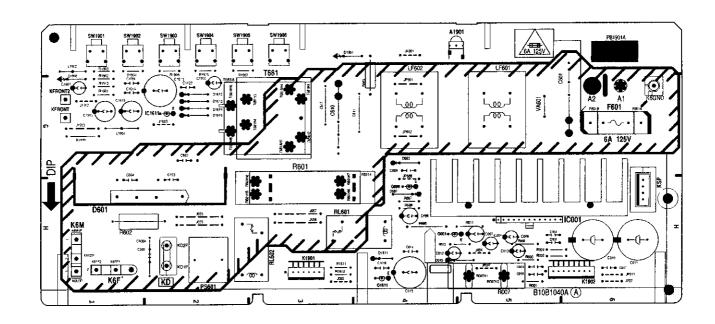


#### **VIDEO BOARD**

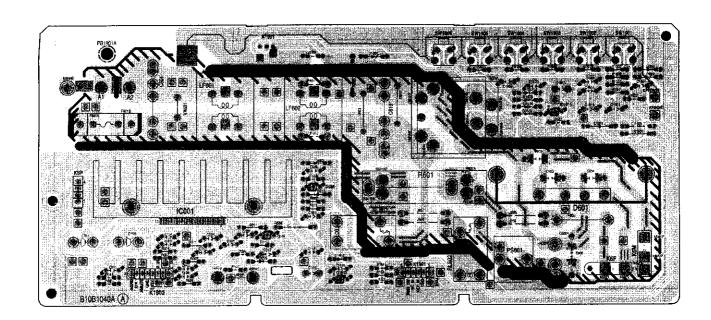




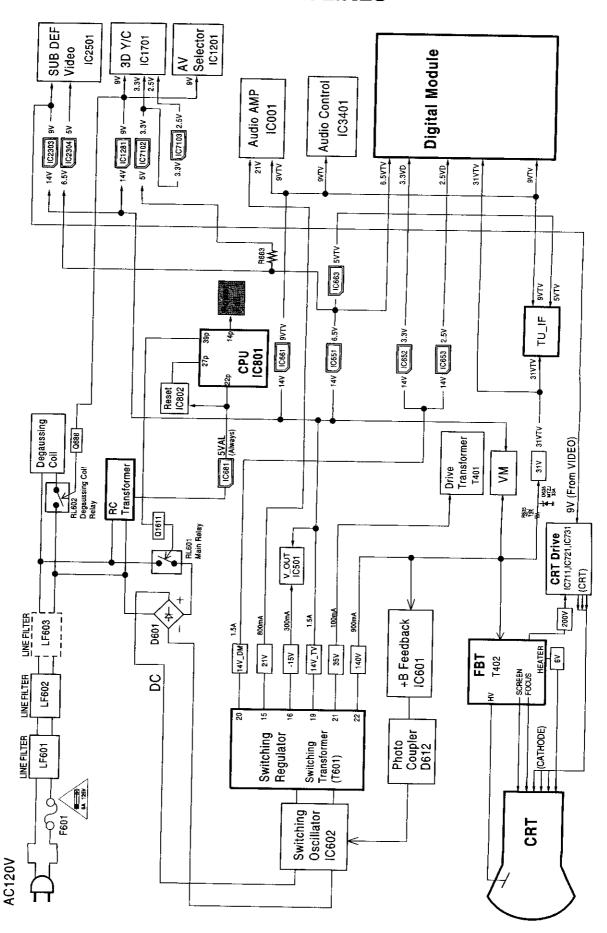
#### **FRONT PWB PARTS SIDE**



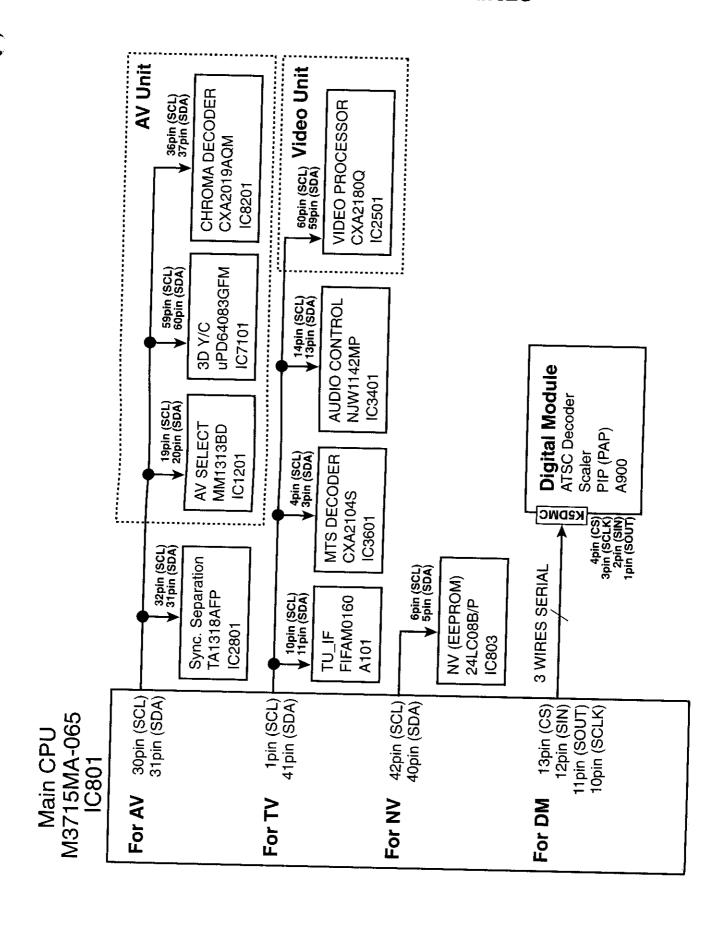
#### **FRONT PWB FOIL SIDE**



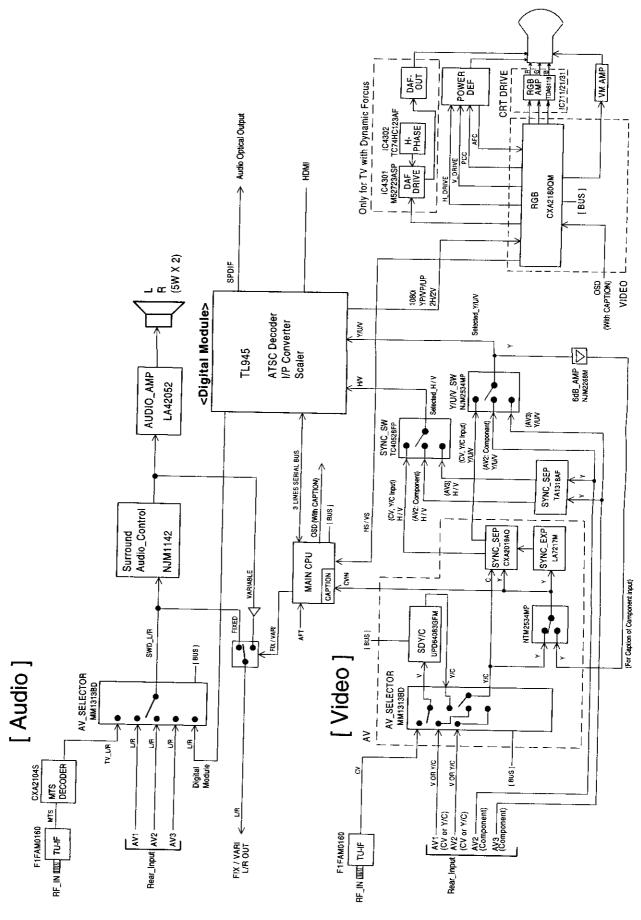
#### **POWER LINES**



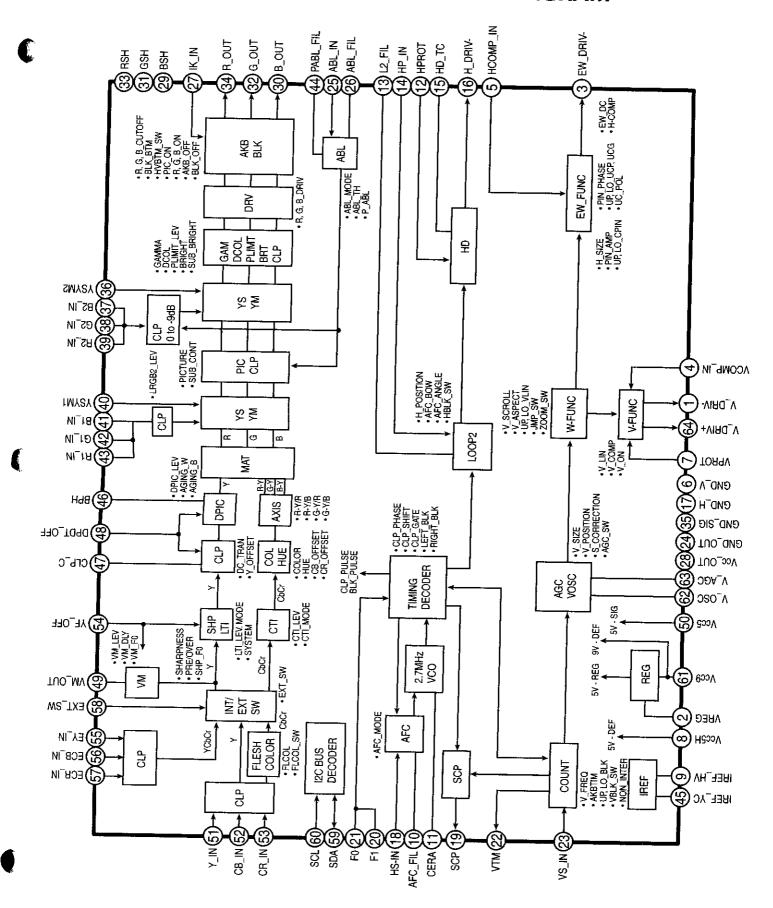
## MAIN CPU DATA BUS LINES



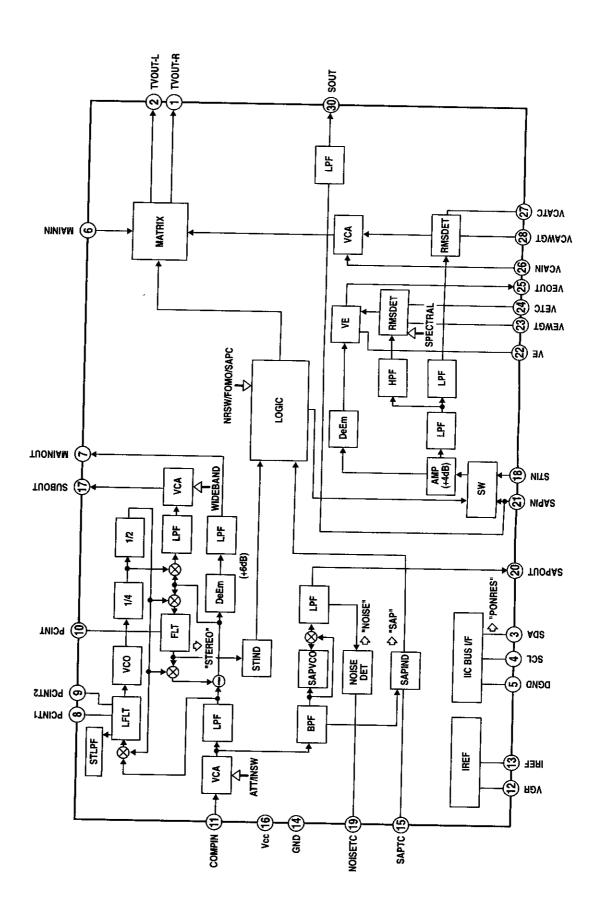
## **SIGNAL LINES**



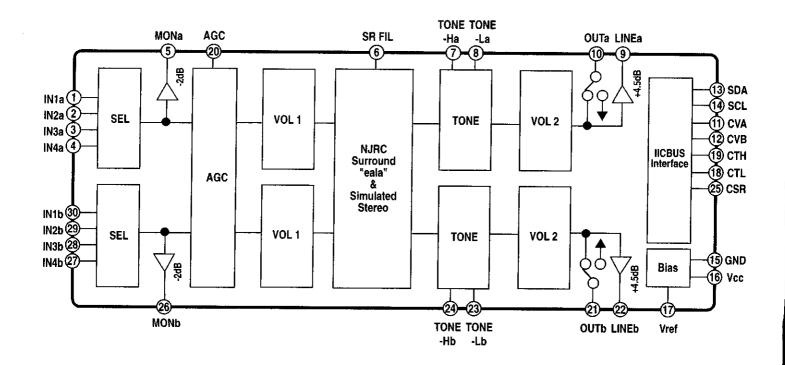
## **IC2501 CRT DRIVER BLOCK DIAGRAM**



## **IC3601 AUDIO PROCESSOR BLOCK DIAGRAM**

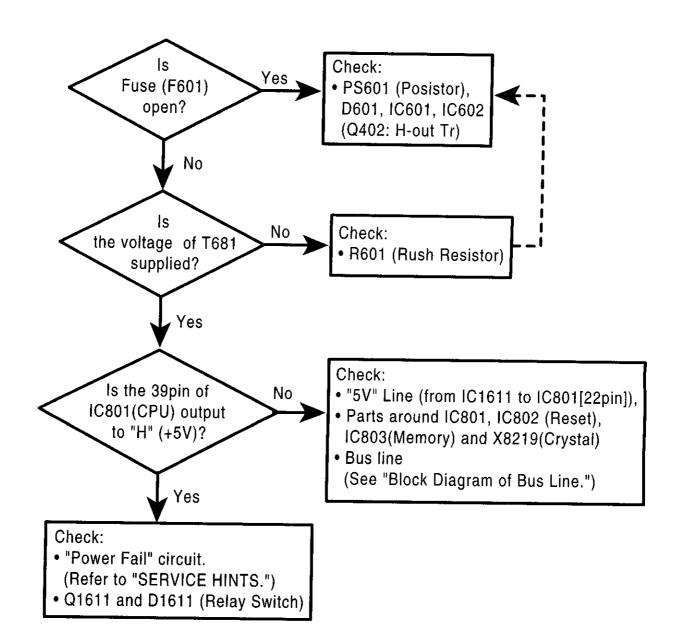


## **IC3401 AUDIO CONTROL BLOCK DIAGRAM**

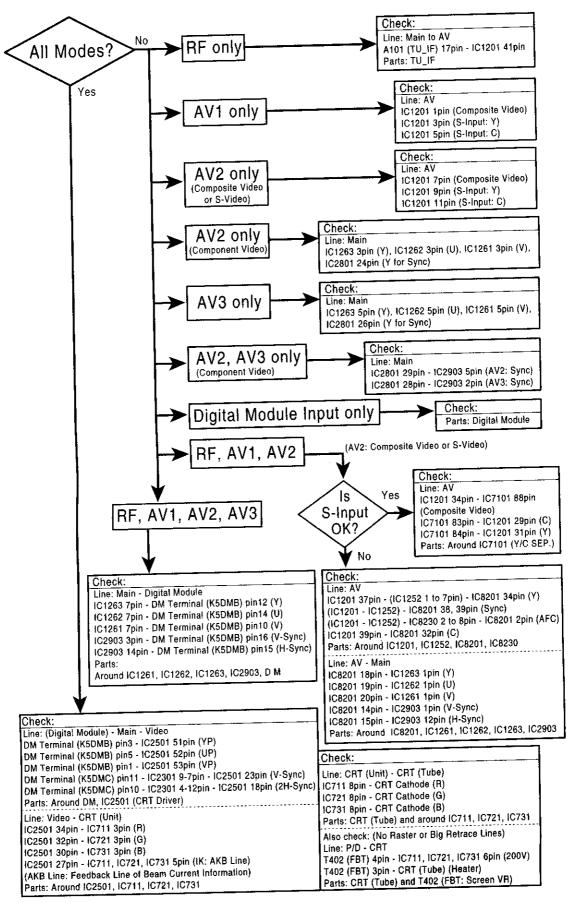


## TROUBLESHOOTING FLOW CHARTS

#### **NO POWER**

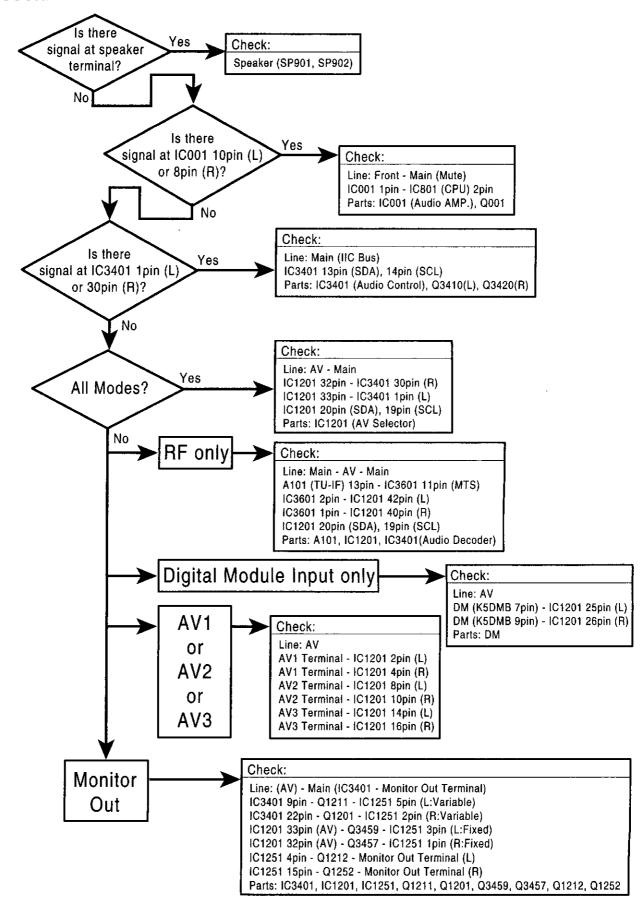


#### **NO PICTURE**



#### TROUBLE SHOOTING FLOW CHARTS (Cont.)

#### **NO SOUND**



## **CONTROL PORT FUNCTION**

System Control (CPU : IC801)

Pin	Name	Function	1/0	Description
1	P11/SCL1	IIC bus clock for TV	IN	
2	P00	Audio AMP Mute	OUT	Active : High
3	P01	DM Reset Out	OUT	Reset Out : Low
4	P02	BPF-SW	OUT	Active : High
5	P03/AD1	Key In	IN	
6	P04/PWM4/AD2	AV SW 2	IN	Active : High
7	P05/AD3	AFT S-IN	IN	S-Curve Input (AFT) to Tuner
8	P06/INT2/AD4	ABL In	IN	Active : Low (SDTV only)
9	P07/INT1	RC In	IN	
10	P20/SCLK//AD5	SCLK for DM	OUT	
11	P21/SOUT/AD6	SOUT for DM	OUT	
12	P22/SIN/AD7	SIN for DM	IN	
13	P23/TIM3	CS for DM	OUT	
14	P24/TIM2	Power Fail In	IN	Active : Low
15	P25/INT3	Normal SW	IN	Active : High (SDTV only)
16	P26/XCIN	Status In	IN	IIC bus control for factory, Bus Release Request : Low
17	P27/XCOUT	Ack Out	OUT	IIC bus control for factory, Bus Release Request : Low
18	CNVss	CNVss	-	
19	Xin	Xin	IN	CPU System Clock (8MHz)
20	Xout	Xout	OUT	CPU System Clock (8MHz)
21	Vss	Vss	iN	GND (0Vdc)
22	Vcc	Vcc	IN	+5Vdc±10%
23	FILT	Filter for IC	IN	Capacitor must be connected to Vss.
24	HLF	HLF Out	OUT	For Caption RC - Filter
25	Vhold	Vhold	OUT	For Caption
26	Cvin	CV In	IN	For Caption
27	RESET	Reset In	IN	Reset Input (From H to L)
28	Pullup	Pullup	IN	For UOC (10kΩ)
29	P15	AW SW 1	OUT	Active : High
30	P31/SCL3	IIC bus clock for AV	IN	(HDTV only)
31	P30/SDA3	IIC bus data for AV	OUT	(HDTV only)
32	CLK/cont/P10	Fix/Variable Out	OUT	Fix : Low, Variable : High
33	P55/OUT	OSD BLK Out	OUT	OSD Blanking Output (Negative Polarization)
34	P54/R	OSD R Out	OUT	OSD R Output (Negative Polarization)
35	P53/G	OSD G Out	OUT	OSD G Output (Negative Polarization)
36	P52/B	OSD B Out	OUT	OSD B Output (Negative Polarization)
37	P51/Vsync	Vsync	IN	V-SYNC Input (Negative Polarization)
38	P50/Hsync	Hsync	IN	H-SYNC Input (Negative Polarization)
39	P16/AD8/TIM2	TV Relay Out	OUT	Active : High
40	P14/SDA2	IIC bus data for NVL	OUT	
41	P13/SDA1	IIC bus data for TV	OUT	
42	P22	IIC bus clock for NVL	IN	

For parts or service contact

SANYO Fisher Service Corporation 21605 Plummer Street Chatsworth, CA 91311 (U.S.A.) 300 Applewood Crescent, Concord, Ontario L4K 5C7 (CANADA) March / 2004 / 2000 SMC

Printed in U.S.A.

# NOTE:

The official *Service Manual* includes two oversized (approximately 24" x 30") double-sided diagrams which are not included in this PDF.

This PDF was made from scanning the original *Service Manual* which was obtained from:

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E-mail: support@sanyotv.com Phone: 870-633-5030 Fax: 870-633-0650

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