Amalgamated Appliances

TEDELEX

Colour TV 25/29 inch

EC2922

M113 Chassis

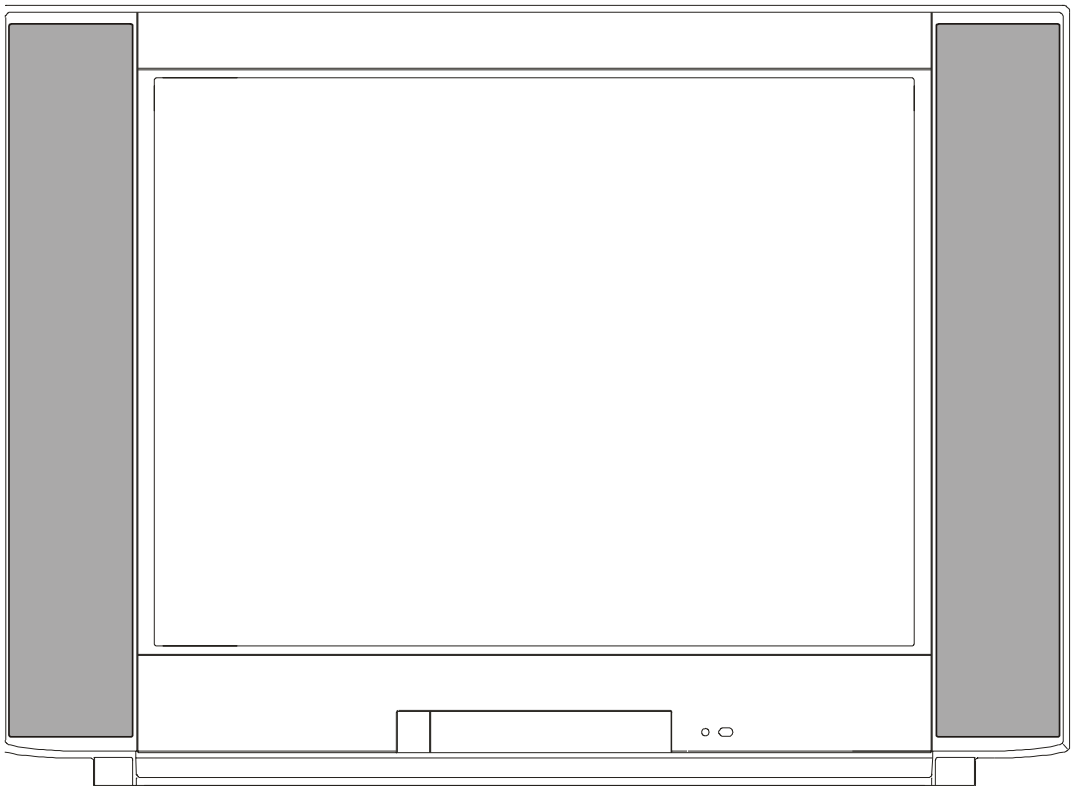
PAL BG/DK I, NTSC 3.58/4.43 AV.

EC2922

EC2559

EC29187

EC2959



EC2922

August 2003
Revised November 2003

Service Manual

SPECIFICATIONS

MAIN UNIT

TV Receiving System	PAL, BG/DK,I/I.
AV Color System	PAL, NTSC 3.58 & 4.43
Tuner	HYPER BAND TUNER
Number of Preset Program	100 (0-99)
Channel Indicator	On screen display
Function Adjust Indicator	MENU display
Language of OSD	English
RF Aerial Input	75-ohm unbalanced
Video Input/Output	75-ohm 1.0Vp-p, RCA
Audio Input	10k ohm 0.5 Vrms, high impedance
Audio Output	1k ohm 0.5 Vrms
Audio Output Power	≥ 6W+6W
Operating Voltage	AC230V~, 50Hz
Power Consumption	130W
Picture Tube	29" (74cm)
Dimensions	782X 502X 571 MM (W X D X H)
Net Weight	37 kg

INFRA-RED REMOTE CONTROL

Features	Full Function Remote Control
Effective Distance Power	8 meters
Power Supply	DC 3V (two batteries, size AA)

Color systems	- PAL, NTSC3.58 & NTSC 4.43
Sound systems	- DK,BG, I/I
Sound Effect	- B.E, Treble, Bass, Balance, S.E
Preset Programs	- 100
Preset Method	- Auto Search,Manual Store, Fine Tune
Tuning Method	- Voltage Synthesized
Frequency Range	- Hyper Band Tuner
Voltage Range	- AC230V~, 50Hz
Functions select	- Pop up menu
Remote Control	- Full Function Infra-red Remote Controller
AV I/O	- 2 RCA-type AV Input - 1 S-video Input - 1 RCA-type AV output

Useful functions	- Sleep Timer (10-120min.) - Auto Off (after 15 min with no signal) - Blue Background selection (while no signal) - 3 Default ,1 User Picture Settings - Program Swap - Channel Skip - AV Stereo - Surround Sound - On/Off Timer - Game - Note Book - Calendar - Biological Clock - Favorite Channel Setting - Program Prearrange - At Function

M113 Chassis Alignment

Enter service mode

Reduce the volume to minimum. Hold the VOLUME DOWN key on the front panel and then also press the DISPLAY key on the remote handset.

A letter 'D' on the screen indicates that the factory mode is entered. Use the remote keys to access the factory menu. All changes in factory data will be saved automatically.

Press the STANDBY key to exit.

Note that system data accessed by remote key 6 must not be changed when servicing. Changes will compromise the functionality of the set.

Setting method:

No	Adjustment Items	Data Name (default value in brackets)	Conditions and input signal	Setting method (need enter D-mode)
1	Screen voltage	----------	"IRGB cut off" must set to 80 (all pattern)	● Press "MUTE" key on the remote handset and the screen will become a horizontal line. Then adjust the "screen" VR on the flyback until the horizontal line can just be seen (minimum visible intensity).
2	Focus voltage	----------	Cross hatch pattern.	● Adjust the "focus" VR on the flyback until the screen becomes clear.
3	Vertical geometry for PAL system (Key 1)	HIT(0F) VP50(04) VLIN(04) VSC(03) VBLK(00) VCEN(11) OSDH(1F)	Input a PAL cross hatch pattern.	● Adjust HIT for vertical amplitude. ● Adjust VP50 for vertical position. ● Adjust VLIN for vertical linearity. ● Adjust VSC for vertical S-correction ● (Normally use default value) ● (Normally use default value). ● Adjust OSDH for OSD position

5	Vertical geometry for NTSC system (Key 1)	HITS(14) VP60(00) VLIS(02) VSS(02) VBLK(00) VCEN(11) OSDHS(1D)	Input a NTSC cross hatch pattern.	● Adjust HITS for vertical amplitude. ● Adjust VP60 for vertical position. ● Adjust VLINS for vertical linearity. ● Adjust VSS for vertical S-correction ● (normally use default value) ● (normally use default value) ● Adjust OSDHS for OSD position
6	Horizontal geometry for PAL system (Key 2)	HPOS (09) DPC(16) KEY(22) WID(1E) ECCT(0E) ECCB(0F) VEHT(04) HEHT(02)	Input a PAL cross hatch pattern with black and white background.	● Adjust HPOS for horizontal position. ● Adjust DPC, KEY, ECCT and ECCB until the vertical line at left and right side of the picture become straight. ● Adjust WID for horizontal width. ● VEHT and HENT is for the picture size stability when changing the brightness of the screen. Receive pattern of cross hatch with black background and then change to white background, then compare the vertical and horizontal size between black and white background. Adjust VEHT and HEHT until you get the minimum difference of screen size. After you adjust VEHT and HEHT, you must re-adjust vertical and horizontal amplitude.
7	Horizontal geometry for NTSC system (Key 2)	HPS (15) DPCS(21) KEYS(10) WIDS(29) ECCTS(12) ECCBS(11) VEHTS(04) HEHTS(04)	Input a NTSC cross hatch pattern with black and white background.	● Adjust HPS for horizontal position. ● Adjust DPCS, KEYS, ECCTS and ECCBS until the vertical line at left and right side of the picture become straight. ● Adjust WIDS for horizontal width. ● Adjust VEHTS and HEHTS using same method of PAL system. Also need re-adjustment of vertical and horizontal amplitude.
8	Key 3 (Status adjustment)	CNTX (5A) CNTN (05) BRTX (20) BRTN (1D) COLX (3F) COLN (00) TNTX (42) TNTN (28)	----------	● (all use default value)
9	Key 4 (Status adjustment)	BRTC (3D) COLC (57) COLS (47) COLP (F0) SCOL(04) SCNT (0F) CNTC (40) TNTC (48)	----------	● (all use default value)

10	Key 5 (sharpness adjustment)	ST3 (20) SV3 (20) ST4 (20) SV4 (20) SVD(15) ASSH(04) SHPX (3F) SHPN (1A)	----------	● (all use default value)
11	Key 7 (Status adjustment)	RFAGC (26) SBY (08) SRY (08) BRTS (0D) TXCX (1F) RGCN (00) SECD (08) MUTT(70) STAT(30)	Receive a 60dB grey scale + color bar signal	● Adjust RFAGC until the picture noises disappear exactly. ● Adjust SBY and SRY to get the optimal color for SECAM system. ● For the adjustment of BRTS, receive an 8 step grey scale pattern and adjust all picture settings to 50%. Then adjust BRTC until the first and second step on the screen can just be distinguished. ● (the other use default value)
12	Key 8 (curve of volume control, curve of B.E./WOO-FER)	V01(3A) V25(B0) V50(DC) V100(FF) BASC(40) BASX(72) TREC(40) WOFC(39) AVC(0E)	----------	● (all use default value)
	Key 9	NEWS(14) SPACES(5A) NEWT(14) SPACET(5A) WOFF(00) B01(4F) B25(68) B50(7F)		
13	Key calendar (other adjustment)	SVM(03) SVM1(02) SVM2(03) SVM3(00) PYNX(28) PYNN(15) PYXS(22) PYNS(04)	----------	● (all use default value)
14	Key note (other adjustment)	CLTO(4B) CLTM(4C) CLVO(4D) CLVD(48) ABL(27) DCBS(33) DEF(01)	----------	● (all use default value)

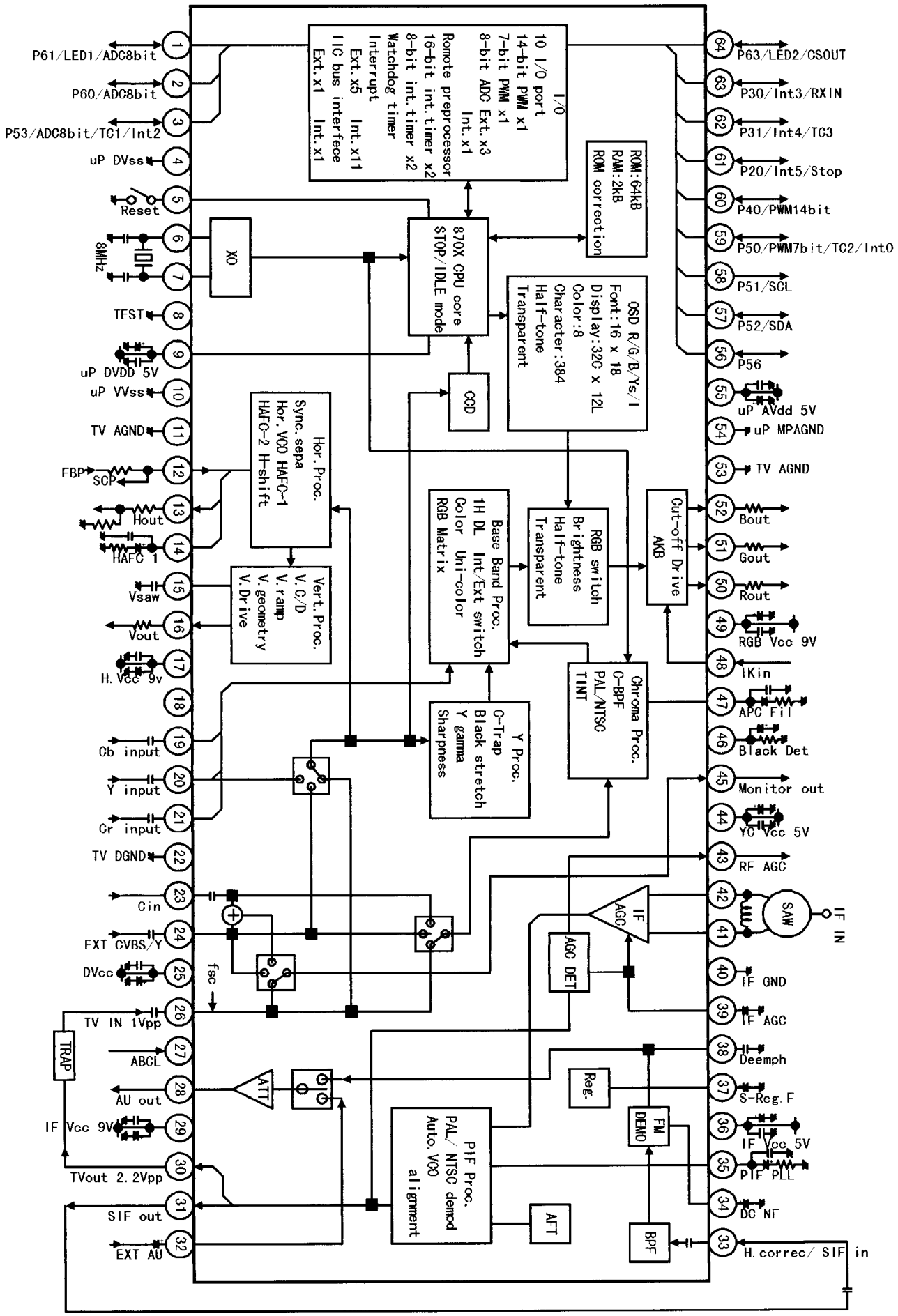
15	Key game (other adjustment)	OSD1(30) OSDF1(66) OSD2(48) OSDF2(75) HAFC(09) NOIS(01) UCOM(00)	----------	● (all use default value)
16	Key 0 (White balance adjustment)	R CUT (6A) G CUT (A2) B CUT (B4) G DRV (42) B DRV (38)	Black and white pattern (PAL)	1. Measure the dark side of the picture with a color analyzer and set RCUT to 80. Then adjust BCUT and GCUT until the data on the analyzer become x = 284, y = 299. (Note factory method only) 2. Measure the bright side of the picture, Then adjust BDRV and GDRV until the data on the analyzer become x = 284, y = 299. (Note factory method only) 3. Repeat step 1 and 2 until you get right color on both dark and bright side of the screen. (Note factory method only)

System data:

Item	Adjust item	Default.value
Key6	OPT FLG0 FLG1 STBY HD-DELAY MODE0 MODE1 MODE2	(37) (02) (B9) (12) (0C) (A2) (97) (00)

Press STANDBY to exit factory mode

IC101 BLOCK DIAGRAM



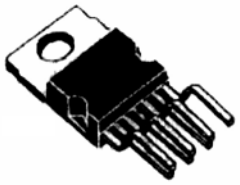
IC301 TDA8172

SGS-THOMSON MICROELECTRONICS

TDA8172

TV VERTICAL DEFLECTION OUTPUT CIRCUIT

- POWER AMPLIFIER
- FLYBACK GENERATOR
- THERMAL PROTECTION

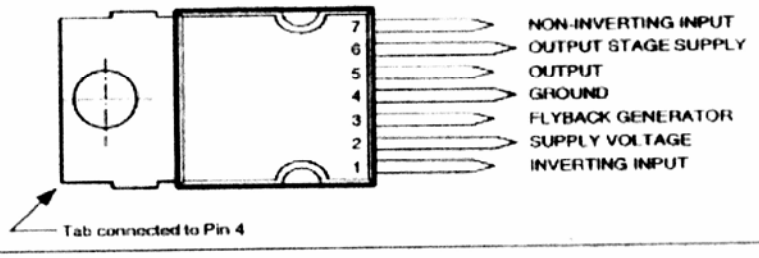


HEPTAWATT
(Plastic Package)

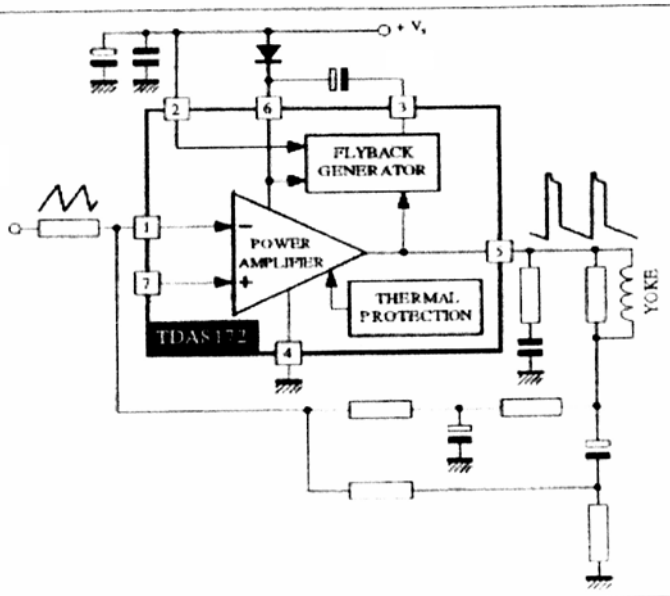
DESCRIPTION

The TDA8172 is a monolithic integrated circuit in HEPTAWATT™ package. It is a high efficiency power booster for direct driving of vertical windings of TV yokes. It is intended for use in Color and B & W television as well as in monitors and displays.

PIN CONNECTIONS (top view)

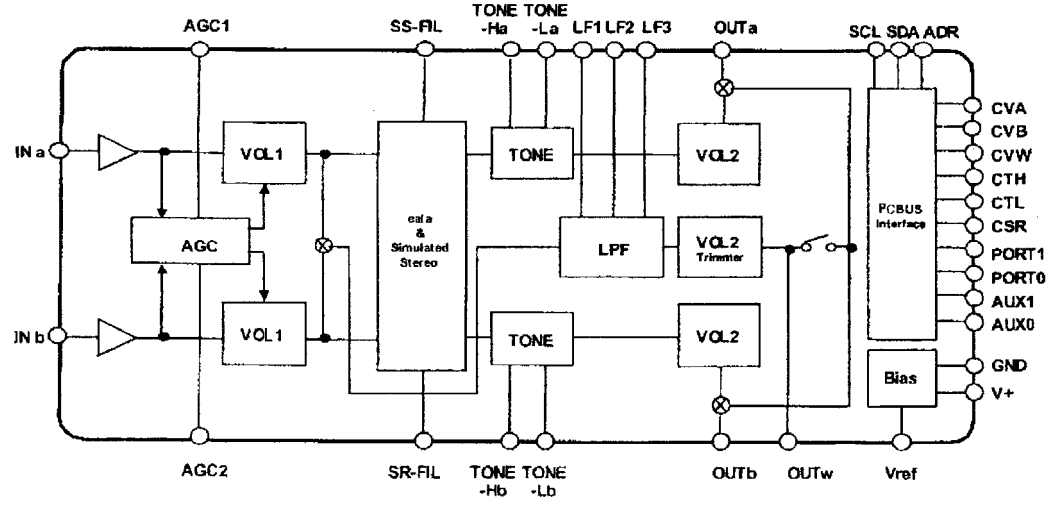


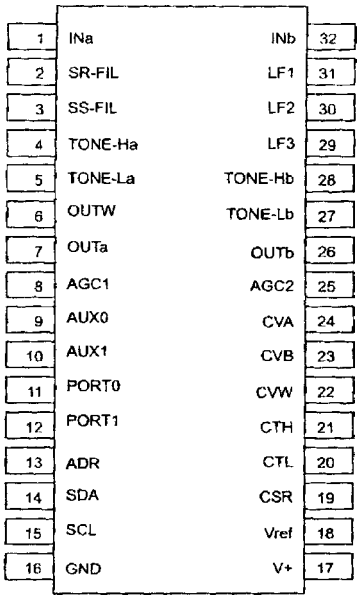
BLOCK DIAGRAM



IC601 NJW1136

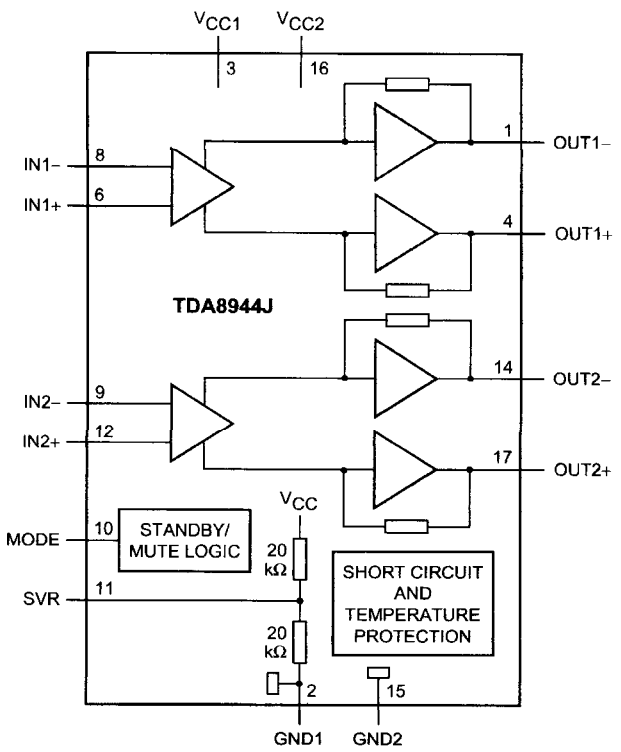
■ BLOCK DIAGRAM





No.	Symbol	Function	No.	Symbol	Function
1	INa	Ach input terminal	17	V+	Supply voltage terminal
2	SR-FIL	Surround filter terminal	18	Vref	Reference voltage terminal
3	SS-FIL	Simulated stereo filter terminal	19	CSR	DAC output terminal for surround control
4	TONE-Ha	Ach tone control (treble) filter terminal	20	CTL	DAC output terminal for tone control (bass)
5	TONE-La	Ach tone control (bass) filter terminal	21	CTH	DAC output terminal for tone control (treble)
6	OUTw	Subwoofer output terminal	22	CVW	Bch DAC output terminal for LPF trimmer
7	OUTa	Ach output terminal	23	CVB	Bch DAC output terminal for volume and balance
8	AGC1	AGC attack and recovery time setting terminal	24	CVA	Ach DAC output terminal for volume and balance
9	AUX0	Auxiliary 3 values voltage output terminal (0.0V, 2.5V, 5V)	25	AGC2	AGC boost level setting terminal
10	AUX1	Auxiliary 2 values voltage output terminal (0.0V, 5V)	26	OUTb	Bch output terminal
11	PORT0	Logic input terminal	27	TONE-Lb	Bch tone control (bass) filter terminal
12	PORT1	Logic input terminal	28	TONE-Hb	Bch tone control (treble) filter terminal
13	ADR	Slave address setting terminal	29	LF3	LPF filter3 terminal
14	SDA	I^2C data terminal	30	LF2	LPF filter2 terminal
15	SCL	I^2C cock terminal	31	LF1	LPF filter1 terminal
16	GND	Ground terminal	32	INb	Bch input terminal

IC602 TDA8944



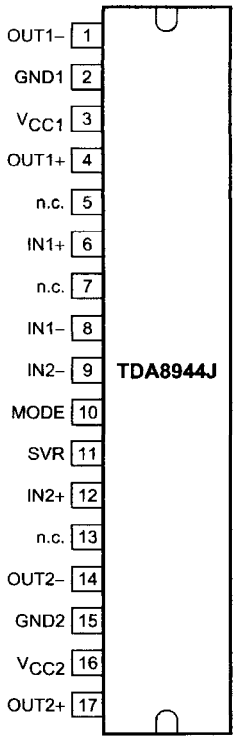


Table 3: Pin description

Symbol	Pin	Description
OUT1−	1	negative loudspeaker terminal 1
GND1	2	ground channel 1
V_{CC1}	3	supply voltage channel 1
OUT1+	4	positive loudspeaker terminal 1
n.c.	5	not connected
IN1+	6	positive input 1
n.c.	7	not connected
IN1−	8	negative input 1
IN2−	9	negative input 2
MODE	10	mode selection input (standby, mute, operating)
SVR	11	half supply voltage decoupling (ripple rejection)
IN2+	12	positive input 2
n.c.	13	not connected
OUT2−	14	negative loudspeaker terminal 2
GND2	15	ground channel 2
V_{CC2}	16	supply voltage channel 2
OUT2+	17	positive loudspeaker terminal 2

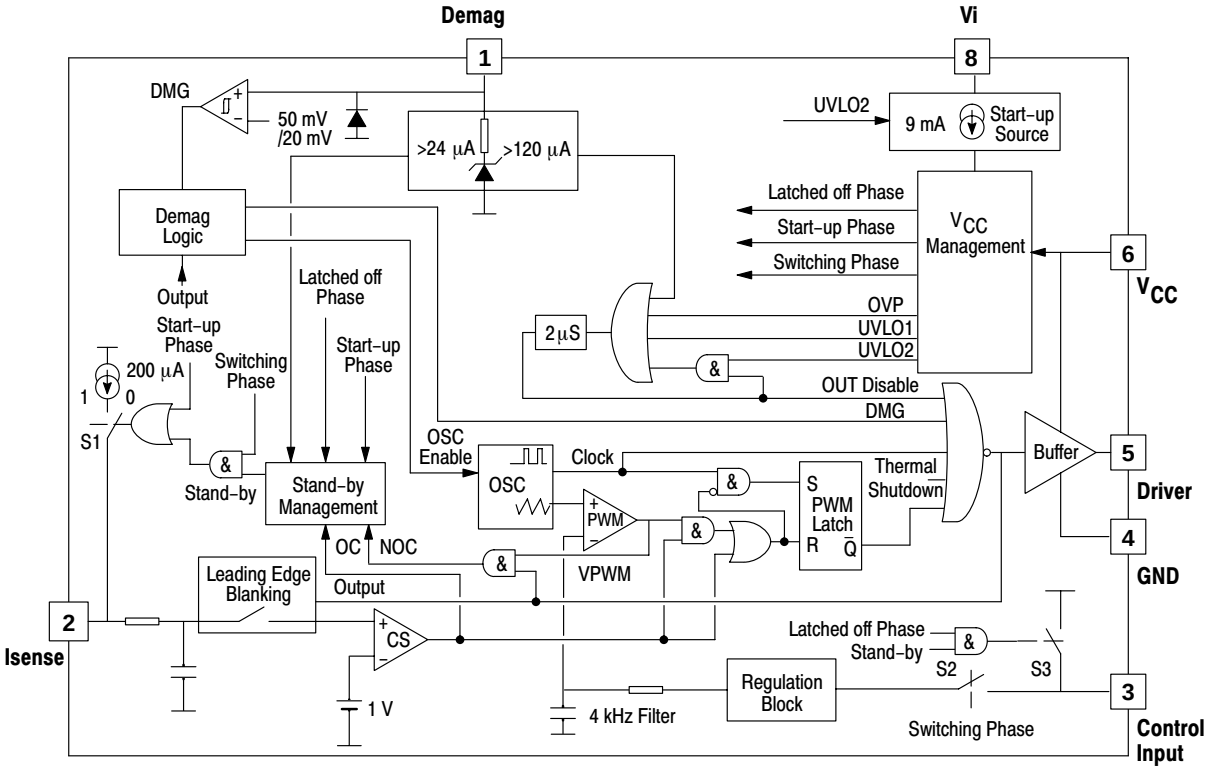


Figure 1. Representative Block Diagram

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Total Power Supply Current	I_{CC}	30	mA
Output Supply Voltage with Respect to Ground	V_{CC}	16	V
All Inputs except Vi	V_{inputs}	–1.0 to +16	V
Line Voltage Absolute Rating	V_i	500	V
Recommended Line Voltage Operating Condition	V_i	400	V
Power Dissipation and Thermal Characteristics Maximum Power Dissipation at T_A = 85°C Thermal Resistance, Junction–to–Air	 P_D $R_{\theta JA}$	 600 100	 mW °C/W
Operating Junction Temperature	T_J	150	°C
Operating Ambient Temperature	T_A	–25 to +85	°C

PIN FUNCTION DESCRIPTION

Pin	Name	Description
1	Demag	The Demag pin offers 3 different functions: Zero voltage crossing detection (50 mV), 24 μA current detection and 120 μA current detection. The 24 μA level is used to detect the secondary reconfiguration status and the 120 μA level to detect an Over Voltage status called Quick OVP.
2	I_{sense}	The Current Sense pin senses the voltage developed on the series resistor inserted in the source of the power MOSFET. When I_{sense} reaches 1.0 V, the Driver output (pin 5) is disabled. This is known as the Over Current Protection function. A 200 μA current source is flowing out of the pin 3 during the start–up phase and during the switching phase in case of the Pulsed Mode of operation. A resistor can be inserted between the sense resistor and the pin 2, thus a programmable peak current detection can be performed during the SMPS stand–by mode.
3	Control Input	A feedback current from the secondary side of the SMPS via the opto–coupler is injected into this pin. A resistor can be connected between this pin and GND to allow the programming of the Burst duty cycle during the Stand–by mode.
4	Ground	This pin is the ground of the primary side of the SMPS.
5	Driver	The current and slew rate capability of this pin are suited to drive Power MOSFETs.
6	V_{CC}	This pin is the positive supply of the IC. The driver output gets disabled when the voltage becomes higher than 15 V and the operating range is between 6.6 V and 13 V. An intermediate voltage level of 10 V creates a disabling condition called Latched Off phase.
7		This pin is to provide isolation between the V_i pin 8 and the V_{CC} pin 6.
8	V_i	This pin can be directly connected to a 500 V voltage source for start–up function of the IC. During the Start–up phase a 9.0 mA current source is internally delivered to the V_{CC} pin 6 allowing a rapid charge of the V_{CC} capacitor. As soon as the IC starts–up, this current source is disabled.

OPERATING DESCRIPTION

Regulation

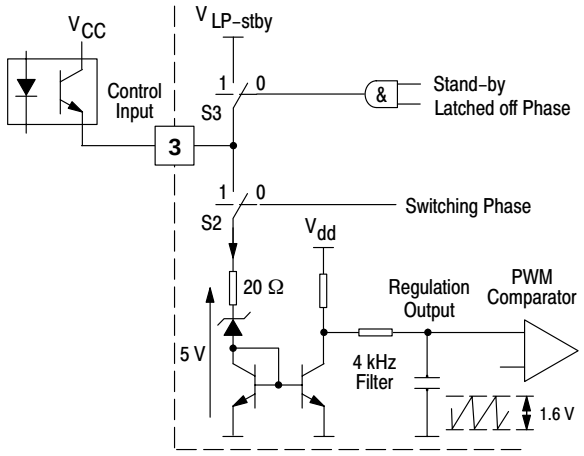


Figure 2. Regulator

The pin 3 senses the feedback current provided by the opto coupler. During the switching phase the switch S2 is closed and the shunt regulator is accessible by the pin 3. The shunt regulator voltage is typically 5.0 V. The dynamic resistance of the shunt regulator represented by the zener diode is 20 Ω. The gain of the Control input is given on Figure 11 which shows the duty cycle as a function of the current injected into the pin 3.

A 4.0 kHz filter network is inserted between the shunt regulator and the PWM comparator to cancel the high frequency residual noise.

The switch S3 is closed in Stand–by mode during the Latched Off Phase while the switch S2 remains open. (See section PULSED MODE DUTY CYCLE CONTROL).

The resistor Rdpulsed (Rduty cycle burst) has no effect on the regulation process. This resistor is used to determine the burst duty cycle described in the chapter “Pulsed Duty Cycle Control” on page 8.

PWM Latch

The MC44608 works in voltage mode. The on–time is controlled by the PWM comparator that compares the oscillator sawtooth with the regulation block output (refer to the block diagram on page 2).

The PWM latch is initialized by the oscillator and is reset by the PWM comparator or by the current sense comparator in case of an over current. This configuration ensures that only a single pulse appears at the circuit output during an oscillator cycle.

Current Sense

The inductor current is converted to a positive voltage by inserting a ground reference sense resistor R_{Sense} in series with the power switch.

The maximum current sense threshold is fixed at 1.0 V. The peak current is given by the following equation:

$$Ipk_{max} = \frac{1}{R_{sense(\Omega)}}(A)$$

In stand–by mode, this current can be lowered as due to the activation of a 200 μA current source:

$$Ipk_{max-stby} = \frac{1 - (R_{CS}(k\Omega) \times 0,2)}{R_{sense}(\Omega)}(A)$$

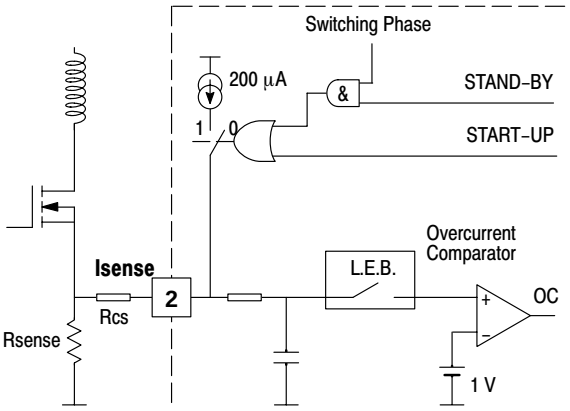


Figure 3. Current Sense

The current sense input consists of a filter (6.0 kΩ, 4.0 pF) and of a leading edge blanking. Thanks to that, this pin is not sensitive to the power switch turn on noise and spikes and practically in most applications, no filtering network is required to sense the current.

Finally, this pin is used:

– as a protection against over currents (Isense > I)

– as a reduction of the peak current during a Pulsed Mode switching phase.

The overcurrent propagation delay is reduced by producing a sharp output turn off (high slew rate). This results in an abrupt output turn off in the event of an over current and in the majority of the pulsed mode switching sequence.

Demagnetization Section

The MC44608 demagnetization detection consists of a comparator designed to compare the V_{CC} winding voltage to a reference that is typically equal to 50 mV.

This reference is chosen low to increase effectiveness of the demagnetization detection even during start–up.

A latch is incorporated to turn the demagnetization block output into a low level as soon as a voltage less than 50 mV is detected, and to keep it in this state until a new pulse is generated on the output. This avoids any ringing on the input signal which may alter the demagnetization detection.

For a higher safety, the demagnetization block output is also directly connected to the output, which is disabled during the demagnetization phase.

The demagnetization pin is also used for the quick, programmable OVP. In fact, the demagnetization input current is sensed so that the circuit output is latched off when this current is detected as higher than 120 μA.

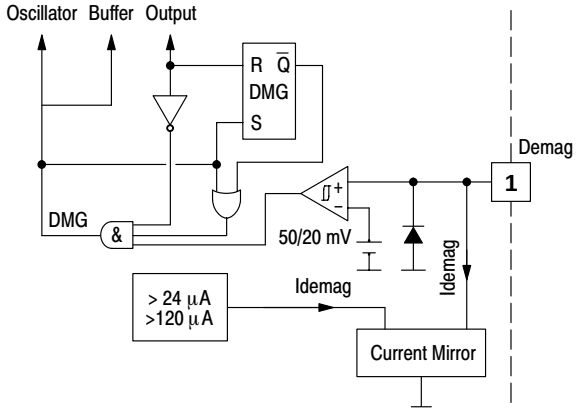


Figure 4. Demagnetization Block

This function can be inhibited by grounding it but in this case, the quick and programmable OVP is also disabled.

Oscillator

The MC44608 contains a fixed frequency oscillator. It is built around a fixed value capacitor CT successively charged and discharged by two distinct current sources ICH and IDCH. The window comparator senses the CT voltage value and activates the sources when the voltage is reaching the 2.4 V/4.0 V levels.

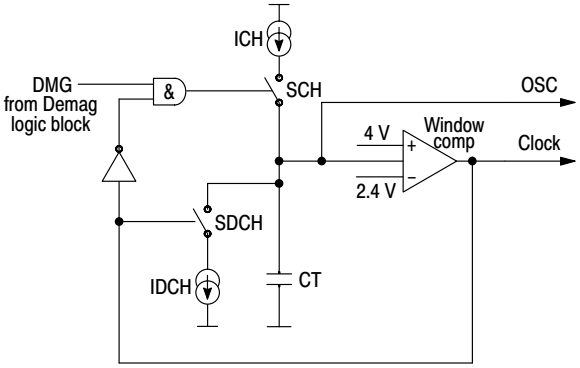


Figure 5. Oscillator Block

The complete demagnetization status DMG is used to inhibit the recharge of the CT capacitor. Thus in case of incomplete transformer demagnetization the next switching cycle is postpone until the DMG signal appears. The oscillator remains at 2.4 V corresponding to the sawtooth valley voltage. In this way the SMPS is working in the so called SOPS mode (Self Oscillating Power Supply). In that case the effective switching frequency is variable and no longer depends on the oscillator timing but on the external working conditions (Refer to DMG signal in the Figure 6).

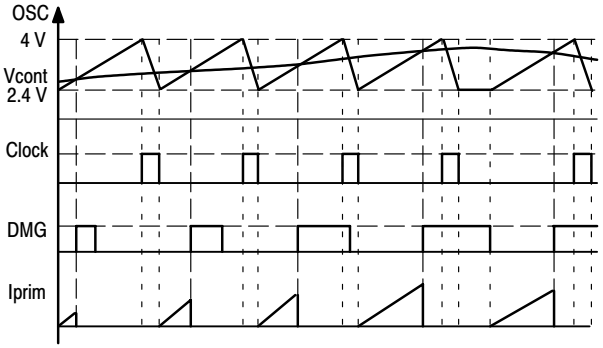


Figure 6.

The OSC and Clock signals are provided according to the Figure 6. The Clock signals correspond to the CT capacitor discharge. The bottom curve represents the current flowing in the sense resistor Rcs. It starts from zero and stops when the sawtooth value is equal to the control voltage Vcont. In this way the SMPS is regulated with a voltage mode control.

Overvoltage Protection

The MC44608 offers two OVP functions:

– a fixed function that detects when V_{CC} is higher than 15.4 V

– a programmable function that uses the demag pin. The current flowing into the demag pin is mirrored and compared to the reference current Iovp (120 μA). Thus this OVP is quicker as it is not impacted by the V_{CC} inertia and is called QOVP.

In both cases, once an OVP condition is detected, the output is latched off until a new circuit START–UP.

Start–up Management

The V_i pin 8 is directly connected to the HV DC rail Vin. This high voltage current source is internally connected to the V_{CC} pin and thus is used to charge the V_{CC} capacitor. The V_{CC} capacitor charge period corresponds to the Start–up phase. When the V_{CC} voltage reaches 13 V, the high voltage 9.0 mA current source is disabled and the device starts working. The device enters into the switching phase.

It is to be noticed that the maximum rating of the V_i pin 8 is 500 V. ESD protection circuitry is not currently added to this pin due to size limitations and technology constraints. Protection is limited by the drain–substrate junction in avalanche breakdown. To help increase the application safety against high voltage spike on that pin it is possible to insert a small wattage 1.0 kΩ series resistor between the V_{in} rail and pin 8.

The Figure 7 shows the V_{CC} voltage evolution in case of no external current source providing current into the V_{CC} pin during the switching phase. This case can be encountered in SMPS when the self supply through an auxiliary winding is not present (strong overload on the SMPS output for example). The Figure 17 also depicts this working configuration.

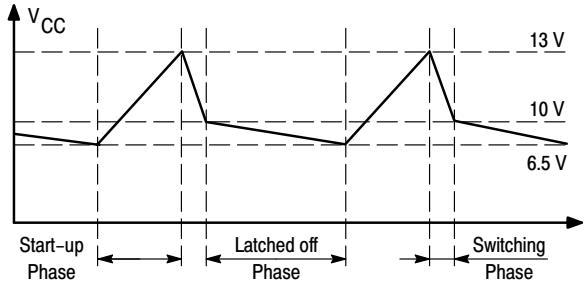


Figure 7. Hiccup Mode

In case of the hiccup mode, the duty cycle of the switching phase is in the range of 10%.

Mode Transition

The LW latch Figure 8 is the memory of the working status at the end of every switching sequence.

Two different cases must be considered for the logic at the termination of the SWITCHING PHASE:

1. No Over Current was observed
2. An Over Current was observed

These 2 cases are corresponding to the signal labelled NOC in case of “No Over Current” and “OC” in case of Over Current. So the effective working status at the end of the ON time memorized in LW corresponds to Q=1 for no over current and Q=0 for over current.

This sequence is repeated during the Switching phase.

Several events can occur:

1. SMPS switch OFF
2. SMPS output overload
3. Transition from Normal to Pulsed Mode
4. Transition from Pulsed Mode to Normal Mode

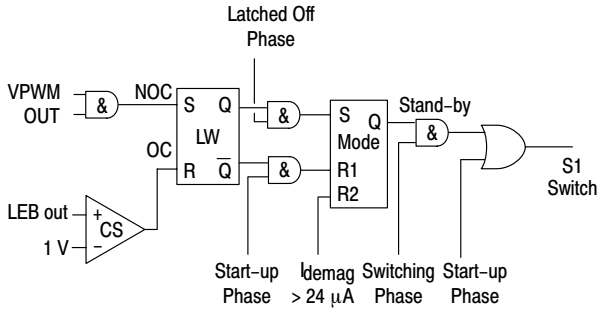


Figure 8. Transition Logic

- **1. SMPS SWITCH OFF**

When the mains is switched OFF, so long as the bulk electrolithic bulk capacitor provides energy to the SMPS, the controller remains in the switching phase. Then the peak current reaches its maximum peak value, the switching frequency decreases and all the secondary voltages are reduced. The V_{CC} voltage is also reduced. When V_{CC} is equal to 10 V, the SMPS stops working.

- **2. Overload**

In the hiccup mode the 3 distinct phases are described as follows (refer to Figure 7):

The SWITCHING PHASE: The SMPS output is low and the regulation block reacts by increasing the ON time (dmax = 80%). The OC is reached at the end of every switching cycle. The LW latch (Figure 8) is reset before the VPWM signal appears. The SMPS output voltage is low. The V_{CC} voltage cannot be maintained at a normal level as the auxiliary winding provides a voltage which is also reduced in a ratio similar to the one on the output (i.e. Vout nominal / Vout short–circuit). Consequently the V_{CC} voltage is reduced at an operating rate given by the combination V_{CC} capacitor value together with the I_{CC} working consumption (3.2 mA) according to the equation 2. When V_{CC} crosses 10V the WORKING PHASE gets terminated. The LW latch remains in the reset status.

The LATCHED–OFF PHASE: The V_{CC} capacitor voltage continues to drop. When it reaches 6.5 V this phase is terminated. Its duration is governed by equation 3.

The START–UP PHASE is reinitiated. The high voltage start–up current source ($–I_{CC1}$ = 9.0 mA) is activated and the MODE latch is reset. The V_{CC} voltage ramps up according to the equation 1. When it reaches 13 V, the IC enters into the SWITCHING PHASE.

The NEXT SWITCHING PHASE: The high voltage current source is inhibited, the MODE latch (Q=0) activates the NORMAL mode of operation. Figure 3 shows that no current is injected out pin 2. The over current sense level corresponds to 1.0 V.

As long as the overload is present, this sequence repeats. The SWITCHING PHASE duty cycle is in the range of 10%.

- **3. Transition from Normal to Pulsed Mode**

In this sequence the secondary side is reconfigured (refer to the typical application schematic on page 13). The high voltage output value becomes lower than the NORMAL mode regulated value. The TL431 shunt regulator is fully OFF. In the SMPS stand–by mode all the SMPS outputs are lowered except for the low voltage output that supply the wake–up circuit located at the isolated side of the power supply. In that mode the secondary regulation is performed by the zener diode connected in parallel to the TL431.

The secondary reconfiguration status can be detected on the SMPS primary side by measuring the voltage level present on the auxiliary winding Laux. (Refer to the Demagnetization Section). In the reconfigured status, the Laux voltage is also reduced. The V_{CC} self–powering is no longer possible thus the SMPS enters in a hiccup mode similar to the one described under the Overload condition.

In the SMPS stand–by mode the 3 distinct phases are:

The SWITCHING PHASE: Similar to the Overload mode. The current sense clamping level is reduced according to the equation of the current sense section, page 5. The C.S. clamping level depends on the power to be delivered to the load during the SMPS stand–by mode. Every switching sequence ON/OFF is terminated by an OC as long as the secondary Zener diode voltage has not been reached. When the Zener voltage is reached the ON cycle is terminated by a true PWM action. The proper SWITCHING PHASE termination must correspond to a NOC condition. The LW latch stores this NOC status.

The LATCHED OFF PHASE: The MODE latch is set.

The START–UP PHASE is similar to the Overload Mode. The MODE latch remains in its set status (Q=1).

The SWITCHING PHASE: The Stand–by signal is validated and the 200 μA is sourced out of the Current Sense pin 2.

- **4. Transition from Stand–by to Normal**

The secondary reconfiguration is removed. The regulation on the low voltage secondary rail can no longer be achieved, thus at the end of the SWITCHING PHASE, no PWM condition can be encountered. The LW latch is reset.

At the next WORKING PHASE a NORMAL mode status takes place.

In order to become independent of the recovery time constant on the secondary side of the SMPS an additional reset input R2 is provided on the MODE latch. The condition Idemag<24 μA corresponds to the activation of the secondary reconfiguration status. The R2 reset insures a direct return into the Normal Mode.

Pulsed Mode Duty Cycle Control

During the sleep mode of the SMPS the switch S3 is closed and the control input pin 3 is connected to a 4.6 V voltage source thru a 500 Ω resistor. The discharge rate of the V_{CC} capacitor is given by $I_{CC–latch}$ (device consumption during the LATCHED OFF phase) in addition to the current drawn out of the pin 3. Connecting a resistor between the Pin 3 and GND ($R_{DPULSED}$) a programmable current is drawn from the V_{CC} through pin 3. The duration of the LATCHED OFF phase is impacted by the presence of the resistor $R_{DPULSED}$. The equation 3 shows the relation to the pin 3 current.

Pulsed Mode Phases

Equations 1 through 8 define and predict the effective behavior during the PULSED MODE operation. The equations 6, 7, and 8 contain K, Y, and D factors. These factors are combinations of measured parameters. They appear in the parameter section “Kfactors for pulsed mode operation” page 4. In equations 3 through 8 the pin 3 current is the current defined in the above section “Pulsed Mode Duty Cycle Control”.

Conditions: RF input, Ch 13, 60dBu.
Mains live side voltages wrt neg of main reservoir capacitor.
Other voltages wrt ground.

Transistor Voltages M113 Chassis

Position	Device Type	C	B	E	Function
		(or D)	(or G)	(or S)	
Q003	2SC1815Y/2SK2541	4.8	0.0	0.0	Sync amp
Q004	2N3904	4.4	0.3	0.0	Tuning voltage amp
Q007	2SC1815Y	11.8	5.9	5.2	5v reg for CPU
Q008	2SA1015Y	5.9	5.1	5.9	Reset generator
Q101	2SC3779D (RF AMPL)	6.1	0.8	0.0	1st IF amp
Q201	2SC1815Y	0.0	0.7	0.0	S-Video chroma input clamp
Q202	2SC1815Y	8.8	3.6	3.0	Composite vision and sound buffer
Q203	2SC1815Y	3.0	3.7	3.0	6MHz trap switch
Q204	2SC1815Y	8.8	3.0	2.3	Vision buffer
Q205	2SC1815Y	0.0	3.0	3.0	5.5MHz trap switch
Q210	FET 2SK2541	3.7	0.0	0.0	5.5MHz trap switch driver
Q211	PDTC124ES	3.6	0.0	0.0	6MHz trap switch driver
Q212	2SC1815Y	8.8	4.1	3.4	Sound out buffer
Q215	2SA1015Y	0.0	11.5	12.5	Switch-off spot suppression
Q401	2SC2482	39.6	0.4	0.0	Horizontal drive
Q411	2SD2539	139.0	-0.2	0.0	Horizontal output
Q412	2SA1015Y	1.8	4.6	5.0	EW correction amp
Q413	2SA1015Y	3.3	4.4	5.0	Beam current geometry compensation
Q414	FET IRF630MFP	33.0	1.8	0.0	EW output
Q451	2SC1815Y	5.1	0.0	-0.6	Beam current buffer
Q501	2SC4544	132.0	8.0	7.6	Red output
Q502	2SC1815Y	7.6	2.8	2.3	Red buffer
Q503	2SC4544	123.5	8.1	7.6	Green output
Q504	2SC1815Y	7.6	3.0	2.5	Green buffer
Q505	2SC4544	120.0	8.1	7.7	Blue output
Q506	2SC1815Y	7.7	3.0	2.5	Blue buffer
Q507	2SA562TM-0	0.0	0.4	1.1	Output bias
Q601	2SA1015Y	0.1	0.1	12.1	Switch plop suppression
Q602	PDTC124ES	0.4	0.1	0.0	Horizontal drive mute
Q630	2SC1815Y	8.8	4.3	3.6	Left sound buffer
Q631	2SC1815Y	8.1	3.8	3.2	Right sound buffer
Q801	FET 2SK2996	3.6	1.2	0.1	PSU output
Q830	2SC2688L	139.5	8.8	11.6	Low voltage standby regulator
Q831	2SC1815Y	10.4	6.1	5.5	PSU error amplifier
Q832	2SC1815Y	10.4	0.0	0.0	High voltage standby regulator
Q833	PDTC124ES	0.0	3.7	0.0	Standby buffer
Q834	PDTC124ES	3.7	0.1	0.0	Standby buffer
Q909	2SC1815Y	8.8	0.0	3.6	Video switch buffer
Q910	2SC1815Y	8.8	4.5	3.6	Video switch buffer
Q911	2SC1815Y	6.3	3.1	2.5	Video output amp
Q912	2SA1015Y	4.7	6.3	7.0	Video output amp booster
Q913	2SC1815Y	7.8	3.9	3.3	Right sound output buffer
Q914	2SC1815Y	8.0	4.0	3.3	Left sound output buffer
Q915	2SA1015Y	0.0	3.6	4.2	Sync buffer
Q916	2SA1015Y	1.7	8.6	8.8	Sync separator

IC Voltages.

IC101 TCL-A20V01-TO CPU/IF Jungle			
Pin No.	Volts	Pin No.	Volts
1	0.0	33	2.8
2	4.3	34	2.1
3	5.1	35	2.5
4	0.0	36	4.9
5	5.3	37	2.2
6	2.3	38	4.3
7	2.1	39	1.8
8	0.0	40	0.0
9	5.1	41	0.3
10	0.0	42	0.2
11	0.0	43	4.4
12	1.0	44	4.9
13	1.6	45	2.6
14	6.2	46	2.7
15	4.2	47	2.5
16	4.7	48	0.0
17	8.6	49	8.8
18	2.0	50	2.9
19	2.4	51	3.1
20	0.8	52	3.1
21	2.4	53	0.0
22	0.0	54	0.0
23	0.0	55	5.1
24	2.7	56	0.1
25	3.4	57	3.8
26	1.9	58	4.1
27	4.4	59	5.1
28	4.5	60	3.8
29	8.8	61	0.0
30	3.6	62	4.4
31	1.8	63	5.1
32	2.4	64	0.1

IC001 M24C08 Eeprom			
Pin No.	Volts	Pin No.	Volts
1	0	5	3.8
2	0	6	4.0
3	0	7	0.0
4	0	8	5.1

IC601 NJW1136L Sound Processor			
Pin No.	Volts	Pin No.	Volts
1	4.0	17	8.1
2	4.1	18	4.0
3	4.1	19	0.6
4	4.1	20	3.4
5	4.1	21	3.4
6	4.1	22	0.8
7	4.1	23	2.4
8	1.6	24	2.4
9	0.0	25	0.5
10	0.3	26	4.1
11	0.0	27	4.1
12	0.2	28	4.1
13	0.0	29	4.9
14	3.8	30	4.8
15	4.1	31	4.1
16	0.0	32	4.0

IC602 TDA8944J Sound Output			
Pin No.	Volts	Pin No.	Volts
1	6.7	10	0.0
2	0.0	11	6.7
3	13.6	12	6.4
4	6.7	13	0.0
5	0.0	14	6.7
6	6.4	15	0.0
7	0.0	16	13.5
8	6.4	17	6.7
9	6.5		

IC801 MC44608P40 PSU Controller			
Pin No.	Volts	Pin No.	Volts
1	trips psu	5	2.2
2	0.08	6	13.3
3	5.0	7	nc
4	0	8	145.1

IC Voltages.

IC301 TDA8172 Vertical Output			
Pin No.	Volts	Pin No.	Volts
1	4.2	5	14.8
2	27.3	6	27.7
3	1.5	7	4.2
4	0.0		

IC802 PSU Optocoupler			
Pin No.	Volts	Pin No.	Volts
1	11.4	3	5.0
2	10.4	4	13.3

IC901 4052 AV Switch			
Pin No.	Volts	Pin No.	Volts
1	4.4	9	5.6
2	0.0	10	1.0
3	0.0	11	0.0
4	0.3	12	0.0
5	4.4	13	4.3
6	0.0	14	0.0
7	0.0	15	4.3
8	0.0	16	8.8

IC902 4052 AV Switch			
Pin No.	Volts	Pin No.	Volts
1	4.4	9	5.6
2	4.0	10	0.0
3	4.0	11	0.3
4	0.5	12	4.4
5	4.4	13	4.0
6	0.0	14	4.4
7	0.0	15	0.0
8	0.0	16	8.8

Pin Descriptions. IC101 TCL-A20V01-TO CPU/IF Jungle			
Pin No.	Description	Pin No.	Description
1	Tuner band switch output	33	SIF input. Horiz correction input
2	Tuner band switch output	34	Demodulator decoupling
3	Keypad input	35	PIF VCO PLL
4	CPU digital ground	36	+5v IF supply
5	Reset input	37	SIF Decoupling
6	8MHz Oscillator	38	Sound output
7	8MHz Oscillator	39	IF AGC filter
8	Test (fctry) ground	40	IF ground
9	+5v CPU supply	41	IF input
10	CPU digital ground	42	IF input
11	TV analog ground	43	RF AGC output
12	Flyback pulse input	44	+5v Y/C supply
13	Horizontal drive output	45	Video output Not used
14	Horizontal AFC loop filter	46	Black Detector
15	Vertical ramp generator	47	Chroma PLL filter
16	Vertical drive output	48	Cathode current Not used
17	+9v Horizontal supply	49	+9v RGB supply
18	Luminance peak	50	Red output
19	Cb input (not used)	51	Green output
20	Luminance input	52	Blue output
21	Cr input (not used)	53	TV analog ground
22	TV digital ground	54	CPU ground
23	Chroma input	55	+5v CPU supply
24	Video input	56	Ext mute
25	+3.3V TV digital supply	57	SDA
26	Fs output (not used)	58	SCL
27	BCL input	59	TV/AV select output
28	EW correction output	60	AV1/AV2 select output
29	+9v IF supply	61	Tuning voltage output
30	Composite video output	62	TV sync input
31	SIF output	63	Remote input
32	EHT in	64	Standby output

M113 chassis

TEDELEX Colour TV
EC2922 74 cm

PARTS LIST

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Boards and Assemblies

Position	Description	Part Number
	AV Board	EC2922-U
	CRT Base Board	EC2922-L
	Key Switch Board	EC2922-Y
	Main Board	EC2922-O
	Power Switch Board	EC2922-S
	Remote Controller	06-015W34-A111X
	Remote Sensor Board	EC2922-W
	Side AV Board	EC2922-V

Cabinet Front

	ASSY-CRT GND WIRE & HOUS.	02-GND029-XX0
	CRT A68AGA20X99 THOMPSON THOM	44-29OFLW-TS4A
	DEGAUSSING COIL 3100MM	36-DEG290-XX1
	DOOR LOCK	48-388070-XX0
	EXT TOOTH WASHTER qty 4	65-A60180-20E
	FIBRE WASHER	54-295210-0V0
	FRONT CABINET	55-2922FC-0CN1A
	FRONT DOOR	55-2922FD-0HA5B
	HOLDER CABLE	62-227680-0UA
	INLAY FRONT AV	58-2922FI-1UI9A
	LENS	56-2922LE-0HC5Z
	LOGO (TEDELEX)	67-366140-3A0AC
	POWER CORD NIP	62-388060-0UA
	POWER KNOB	56-2922PK-0HA5B
	S/T SCREW B 4x15 AB qty 8	63-B40150-AB4
	S/T SCREW H 6MM 30MM AB qty 4	63-H60300-AB4
	SCREW ST B 3MM 8MM AB	63-B30080-AB4
	SPACER CRT MTG 2MM qty 4	54-205140-000
	SPEAKER 8 OHM 8W qty 2	42-61308F-GX2
	Spring CRT 6MM 50MM 0.6MM qty 2	67-216790-0E0
	SPRING KNOB POWER	67-249700-0E0
P411H	HS 4P A/B 500/13 RBGW	46-26514H-04X
P601H	HS 2P22 600/7 F/W TJC3-2Y	46-27580H-02X
P602H	HS 2P22 600/7 F/W TJC3-2Y	46-27580H-02X

Cabinet Rear

	CABLE 75/300 Angle 90 RCA PLUG	41-PG0300-0RR
	INLAY REAR AV	58-2922RI-2UI1A
	M/C SCREW F 3MM 10MM qty 2	64-F30100-103
	PLATE MODEL NO.	58-2922MP-0UI1A
	REAR CABINET	55-2922RC-0EN5H
	S/T Screw B 4 x 25mm AB qty 13	63-B40250-AB3
	TUNER JACK	47-ANT001-XX0

CRT Base Board

Capacitors

C501	CAP CER 390PF +/-5% 50V	26-EBP391-JCX
C502	CAP CER 390PF +/-5% 50V	26-EBP391-JCX
C503	CAP CER 470PF +/-5% 50V	26-EBP471-JCX
C504	CAP ELEC 10UF +/-20% 250V	25-BLA100-M1X
C505	CAP CER 1000PF +/-10% 2KV	26-AMK102-KRX
C506	CAP ELCO 470UF 20% 16V	25-BCB471-M1X
C508	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C509	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX

CRT Base Board (cont.)

Position	Description	Part Number
Connectors		
P501	PIN BASE *1 TJC1-1A	46-10967W-01X
P502	HS 4P24 460 F/W TJC3-4Y/SCN-4	46-30615H-04X
P503	HS 5P 2468#24 450 TJC3-5Y	46-37030H-05X
S501	CRT SOCKET	47-CRT004-XX0
Diodes		
D501	DIODE 1N4148	10-1N4148-ABX
D502	DIODE 1N4148	10-1N4148-ABX
Filters, Inductors		
L501	DIODE 1N4148	10-1N4148-ABX
L503	COIL CHOKE 10UH +/-10%	34-R100K2-1BX
	BEAD FERRITE HF70 qty 2	35-237250-00X
Resistors		
R501	RES CF 560R 5% 0W166	18-CB0561-JNX
R502	RES CF 680R 5% 0W166	18-CB0681-JNX
R503	RES CF 680R 5% 0W166	18-CB0681-JNX
R505	RES CF 560R 5% 0W166	18-CB0561-JNX
R506	RES CF 680R 5% 0W166	18-CB0681-JNX
R508	RES CF 680R 5% 0W166	18-CB0681-JNX
R509	RES CF 680R 5% 0W166	18-CB0681-JNX
R510	RES CF 560R 5% 0W166	18-CB0561-JNX
R511	RES CF 680R 5% 0W166	18-CB0681-JNX
R513	RES CF 680R 5% 0W166	18-CB0681-JNX
R514	RES CF 2K7 5% 0W166	18-CB0272-JNX
R515	RES CF 1K 5% 0W166	18-CB0102-JNX
R516	RES MO 18K 5% 2W	18-FG0183-JHX
R517	RES MO 18K 5% 2W	18-FG0183-JHX
R518	RES MO 18K 5% 2W	18-FG0183-JHX
R519	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R520	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R521	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R522	RES CF 680R 5% 0W166	18-CB0681-JNX
Transistors		
Q501	TRANS 2SC4544	11-SC4544-0AX
Q502	TRANS 2SC1815Y	11-SC1815-YBX
Q503	TRANS 2SC4544	11-SC4544-0AX
Q504	TRANS 2SC1815Y	11-SC1815-YBX
Q505	TRANS 2SC4544	11-SC4544-0AX
Q506	TRANS 2SC1815Y	11-SC1815-YBX
Q507	TRANSISTOR 2SA562TM-0	11-A562TM-0BX

Main Board

Capacitors

	CAP MPE 0.0047UF +/-5% 63V	27-MBC472-J0X
C002	CAP CER 1500PF +/-10% 50V	26-EBP152-KBX
C003	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C004	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C005	CAP PE 0.22UF +/-5% 63V	27-PBC224-J0X

Main Board (cont)

Position	Description	Part Number
Capacitors (cont)		
C006	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C007	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C008	CAP CER 27PF +/-5% 50V	26-EBP270-JCX
C009	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C020	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C021	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C022	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C023	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C024	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C027	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C028	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C029	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C030	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C031	CAP CER 39PF +/-5% 50V	26-EBP390-JCX
C032	CAP CER 39PF +/-5% 50V	26-EBP390-JCX
C033	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C034	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C035	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C042	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C043	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C101	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C102	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C105	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C106	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C107	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C108	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C109	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C210	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C211	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C213	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C214	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C216	CAP ELCO 0.22UF +/-20% 50V	25-BFB228-M1X
C217	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C218	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C219	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C220	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C221	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C222	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C223	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X
C224	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C225	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C226	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C227	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C228	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C229	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C230	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C231	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C232	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C233	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C234	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C235	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C236	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C237	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C238	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C239	CAP CER 470PF +/-5% 50V	26-EBP471-JCX

Main Board (cont)

Position	Description	Part Number
Capacitors (cont)		
C240	CAP CER 100PF +/-5% 50V	26-EBP101-JCX
C241	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C241A	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C242	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C243	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C244	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C245	CAP ELCO 1000UF 20% 16V	25-BCA102-M1X
C246	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C247	CAP PE 0.0082UF +/-5% 50V	27-PBC822-J0X
C248	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C250	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C251	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C252	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C253	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C301	CAP ELCO 470UF 35V +/-20%	25-BEA471-M1X
C302	CAP ELCO 220UF +/-20% 35V	25-BEA221-M1X
C303	CAP CER 10PF +/-5% 50V	26-EBP100-JCX
C304	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X
C305	CAP PE 0.22UF +/-5% 63V	27-PBC224-J0X
C306	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C307	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C308	CAP ELCO 2200UF 20% 35V	25-BEG222-M1X
C309	CAP M.PE 0.039UF +/-5% 63V	27-MBB393-J0X
C311	CAP MPE 2700PF +/-5% 100V	27-MCB272-J0X
C401	CAP ELCO 4.7UF +/-20% 160V	25-BJB479-M1X
C402	CAP CERCO B 3N3F 10% 500V	26-AIC332-KBX
C403	CAP CERCO 390PF 10% 500V	26-AIC391-KBX
C411	CAP MPP 4300PF +/-5% 1.6KV	27-ALQ432-J0X
C412	CAP M PP 7600PF +/-5% 1.6KV	27-ALQ762-J0X
C413	CAP PP 0U022F 5% 400V	27-RHQ223-J0X
C414	CAP M PP 5600PF +/-5% 1.6KV	27-ALQ562-J0X
C415	CAP ELEC 4.7UF +/-20% 50V	25-264610-M1X
C416	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C418	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C419	CAP M PP 0.51UF +/-5% 400V	27-AHR514-J0X
C421	CAP ELCO 10UF +/-20% 200V	25-BKA100-M1X
C422	CAP ELCO 100UF 20% 160V	25-BJG101-M1X
C431	CAP CERCO B 220PF 10% 500V	26-AIC221-KBX
C432	CAP ELCO 1000UF 20% 35V	25-BEA102-M1X
C441	CAP CERCO B 220PF 10% 500V	26-AIC221-KBX
C442	CAP ELEC 10UF +/-20% 250V	25-BLA100-M1X
C451	CAP PP 0.056UF +/-5% 400V	27-RHQ563-J0X
C601	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C602	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C603	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C604	CAP MPE 2200PF +/-5% 63V	27-MBB222-J0X
C605	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C607	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C608	CAP MPE 0.33UF +/-5% 63V	27-MBB334-J0X
C610	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C611	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C612	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C613	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C614	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X
C615	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X

Main Board (cont)

Position	Description	Part Number
Capacitors (cont)		
C616	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X
C617	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X
C618	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X
C619	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X
C620	CAP ELCO 4.7UF +/-20% 16V	25-BCB479-M1X
C622	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C623	CAP ELCO 1000UF 25V +/-20%	25-BDA102-M1X
C624	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C625	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C626	CAP M.PE 10NF +/-5% 63V	27-MBB103-J0X
C627	CAP MPE 0.047UF +/-5% 63V	27-MBB473-J0X
C628	CAP M.PE 10NF +/-5% 63V	27-MBB103-J0X
C629	CAP MPE 0.047UF +/-5% 63V	27-MBB473-J0X
C630	CAP ELCO 330UF +/-20% 16V	25-BCB331-M1X
C631	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C632	CAP ELCO 10UF +/-20% 25V	25-BDB100-M1X
C633	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C643	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C650	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C651	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C652	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C653	CAP MPE 2200PF +/-5% 63V	27-MBB222-J0X
C654	CAP MPE 2200PF +/-5% 63V	27-MBB222-J0X
C655	CAP MPE 0.047UF +/-5% 63V	27-MBB473-J0X
C656	CAP MPE 0.33UF +/-5% 63V	27-MBB333-J0X
C657	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C801	CAP M PP 0.22UF 20% CB 250VAC	27-AQT224-MVH
C802	CAP M PP 0.22UF 20% CB 250VAC	27-AQT224-MVH
C802A	CAP MPE 0.1UF +/-10% 400V	27-MHW104-K0X
C803	CAP CERCO 470PF +/-10% 400VAC	26-APK471-KBX
C804	CAP CERCO 470PF +/-10% 400VAC	26-APK471-KBX
C804A	CAP CERCO B 1NF 10% 50V	26-ABC102-KBX
C805	CAP CERCO B 0U01F 10% 500V	26-AIM103-KBX
C806	CAP ELCO 220UF +/-20% 450V	25-343680-M1X
C807	CAP CERCO 4700PF +80-20 250VAC	26-AQK472-ZFX
C808	CAP CERCO 4700PF +80-20 250VAC	26-AQK472-ZFX
C809	CAP PP 4700PF +/-5% 630V	27-RJK472-J0X
C812	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C813	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C814	CAP CER 100PF +/-5% 50V	26-EBP101-JCX
C816	CAP CER 2200PF +/-20% 400VAC	26-APK222-MEX
C817	CAP CER 330PF +/-5% 2KV	26-AMK331-JZX
C818	CAP CER 1500PF +/-10% 2KV	26-AMK152-KRX
C820	CAP MPE 0.1UF +/-5% 63V	27-MBB104-J0X
C830	CAP CER 220PF +-/10% 250V	26-AGK221-KRX
C831	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C832	CAP ELCO 1000UF 20% 35V	25-BEA102-M1X
C833	CAP CER 220PF +/-10% 1KV	26-AKK221-KRX
C834	CAP CERCO B 0U01F 10% 500V	26-AIM103-KBX
C835	CAP ELCO 220UF 20% 160V	25-BJG221-M1X
C840	CAP ELCO 100UF 20% 35V	25-BEB101-M1X
C841	CAP CERCO SL 220PF 5% 50V	26-ABC221-JZX
C842	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C843	CAP ELCO 470UF 20% 16V	25-BCB471-M1X
C844	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX

Main Board (cont)

Position	Description	Part Number
Capacitors (cont)		
C845	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C846	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C849	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C863	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C864	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C901	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C902	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C903	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C904	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C905	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C906	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C910	CAP ELCO 220UF 20% 16V	25-BCB221-M1X
C911	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C912	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C913	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C914	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C916	CAP CER CH 33PF +/-5% 50V	26-EBP330-JCX
C917	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C918	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C919	CAP CER 180PF +/-5% 50V	26-EBP181-JCX
C920	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C921	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C922	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C923	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C930	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C930A	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C931A	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
Connectors		
P001	PIN BASE *5 TJC3-5A	46-33079W-05X
P002	PIN BASE *3 TJC3-3A	46-33079W-03X
P201	PIN BASE *5 TJC3-5A	46-33079W-05X
P411	PIN BASE *4 TJCI-4A	46-20598W-04X
P421	PIN BASE *4 TJC3-4A	46-33079W-04X
P601(L)	PIN BASE *2 TJC3-2A	46-33079W-02X
P602(R)	PIN BASE *2 TJC3-2A	46-33079W-02X
P920	PIN BASE *7 TJC3-7A	46-33079W-07X
P921	PIN BASE *7 TJC3-7A	46-33079W-07X
S801	PIN BASE *2 TJC1-2A	46-28559W-02X
S803	PIN BASE *2 TJC2-2A	46-10962W-02X
Diodes		
D001	DIODE ZENER 5V1 5% 0W5	10-79C5V1-DBX
D201	DIODE 1N4148	10-1N4148-ABX
D202	DIODE 1N4148	10-1N4148-ABX
D203	DIODE 1N4148	10-1N4148-ABX
D204	DIODE 1N4148	10-1N4148-ABX
D205	DIODE 1N4148	10-1N4148-ABX
D301	DIODE 1N4001 (RECTIFIER)	10-1N4001-EBX
D303	DIODE ZENER 8V2 5% 0W5	10-79C8V2-DBX
D411	DIODE BY228 (FAST RECTIFIER)	10-0BY228-F0X
D412	DIODE FR104	10-0FR104-FBX

Main Board (cont)

Position	Description	Part Number
Diodes (cont)		
D421	DIODE FR104	10-0FR104-FBX
D431	DIODE FR104	10-0FR104-FBX
D441	DIODE FR104	10-0FR104-FBX
D601	DIODE 1N4148	10-1N4148-ABX
D602	DIODE 1N4148	10-1N4148-ABX
D603	DIODE 1N4148	10-1N4148-ABX
D802	DIODE FR104	10-0FR104-FBX
D804	DIODE 1N4148	10-1N4148-ABX
D805	DIODE 1N4148	10-1N4148-ABX
D806	D1ODE HER108	10-HER108-FBX
D830	DIODE RU3YX(FAST RECTIFIER)	10-0RU3YX-F0X
D831	DIODE RU3AM (FAST RECOVERY)	10-0RU3AM-F0X
D833	DIODE FR154	10-0FR154-FBX
D834	DIODE ZENER UPC 574J	10-PC574J-DJX
D836	DIODE 1N4001 (RECTIFIER)	10-1N4001-EBX
D838	DIODE ZENER 12V 1/2W 5%	10-79C12V-DBX
D840	DIODE 500mW 5.6HSB	10-HS5V6B-DBX
D841	DIODE ZENER 8V2 5% 0W5	10-79C8V2-DBX
DB801	DIODE D3SB60	10-D3SB60-H7X
J616	DIODE 1N4148	10-1N4148-ABX
Filters, Inductors, Resonators, Transformers.		
L002	COIL PL 10UH 5%	34-R100J2-0EX
L101	COIL PL 47UH 5%	34-R470J2-0EX
L102	COIL CHOKE 1UH 10%	34-A109K2-1IX
L201	COIL PL 22UH 5%	34-R220J2-0EX
L202	COIL PL 22UH 5%	34-R220J2-0EX
L203	COIL PL 8U2H 5%	34-R829J2-0EX
L204	COIL PL 8U2H 5%	34-R829J2-0EX
L206	COIL PL 22UH 5%	34-R220J2-0EX
L207	COIL PL 27UH +/-5%	34-R270J2-0EX
L208	COIL PL 10UH 5%	34-R100J2-0EX
L413	COIL CHOKE 600UH	36-WID601-XX1
L414	COIL LINEARITY 18UH	36-LIN180-XX1
L801	COIL CHOKE 100UH 10%	34-R101K2-1BX
L802	COIL CHOKE 100UH 10%	34-R101K2-1BX
L810	BEAD FERRITE HF70 qty 2	35-237250-00X
L811	BEAD FERRITE HF70 qty 2	35-237250-00X
L812	BEAD FERRITE HF70 qty 2	35-237250-00X
L813	BEAD FERRITE HF70 qty 2	35-237250-00X
L814	FERRITE BEAD BF60	35-139730-00X
L815	FERRITE BEAD BF60	35-139730-00X
L816	FERRITE BEAD BF60	35-139730-00X
T401	TRANSF. HOR DRIVE	36-HDR001-AX1
T461	FLYBACK BSC29-0165	37-BSC290-1650X
T801	LINE FILTER	36-LIF005-XX0
T803	TRANSFO CONV BCK	36-TRF046-XX1
X001	CRYSTAL 8.0MHZ	45-OSC8M0-0Y0
X201	CER TRAP 6.5MHZ	45-TRA6M5-0Y0
X202	CER TRAP 6.0MHZ	45-TRA6M0-0Y0
X203	CER TRAP 5.5MHZ	45-TRA5M5-0Y0
Z101	SAW FILTER K2966M 38.9MHZ	45-SAW296-6M0

Main Board (cont)

Position	Description	Part Number
Integrated Circuits		
IC001	IC M2408 EEPROM 8K	13-00M24C-08P
IC101	IC TCL-A20V01-TO	13-A20V01-TOP
IC301	IC TDA8172	13-0TDA81-72S
IC601	IC NJW1136L	13-NJW113-6LP
IC602	IC TDA8944J	13-TDA894-4JS
IC801	IC MC44608P40	13-44608P-40P
IC802	PHOTOCOUPLER PC123Y92	13-PC123Y-92P
IC803	IC L7809CV	13-L7809C-VAP
IC804	IC UA7805C	13-UA7805-C0S
IC901	IC 4052	13-000040-52P
IC902	IC 4052	13-000040-52P
Resistors		
J219	RES CF 3K3 5% 0W166	18-CB0332-JNX
R001	RES CF 2K7 5% 0W166	18-CB0272-JNX
R002	RES CF 2K7 5% 0W166	18-CB0272-JNX
R003	RES CF 1K 5% 0W166	18-CB0102-JNX
R004	RES CF 1K 5% 0W166	18-CB0102-JNX
R005	RES CF 22K 5% 0W166	18-CB0223-JNX
R006	RES CF 10K 5% 0W166	18-CB0103-JNX
R007	RES CF 3K9 5% 0W166	18-CB0392-JNX
R008	RES CF 3K9 5% 0W166	18-CB0392-JNX
R009	RES CF 15K 5% 0W166	18-CB0153-JNX
R010	RES CF 4K7 5% 0W166	18-CB0472-JNX
R020	RES CF 33K 5% 0W166	18-CB0333-JNX
R021	RES CF 15K 5% 0W166	18-CB0153-JNX
R022	RES CF 22K 5% 0W166	18-CB0223-JNX
R023	RES CF 1K 5% 0W166	18-CB0102-JNX
R024	RES CF 47R 5% 0W166	18-CB0470-JNX
R025	RES CF 10K 5% 0W166	18-CB0103-JNX
R026	RES CF 10K 5% 0W166	18-CB0103-JNX
R027	RES CF 22R 5% 0W166	18-CB0220-JNX
R028	RES CF 22R 5% 0W166	18-CB0220-JNX
R030	RES CF 4R7 5% OW25	18-CD0479-JNX
R031	RES CF 1K 5% 0W166	18-CB0102-JNX
R032	RES CF 1K 5% 0W166	18-CB0102-JNX
R033	RES CF 10K 5% 0W166	18-CB0103-JNX
R034	RES CF 100K 5% 0W166	18-CB0104-JNX
R035	RES CF 10K 5% 0W166	18-CB0103-JNX
R036	RES CF 470R 5% 0W166	18-CB0471-JNX
R042	RES CF 470R 5% 0W166	18-CB0471-JNX
R043	RES CF 10K 5% 0W166	18-CB0103-JNX
R044	RES CF 470R 5% 0W166	18-CB0471-JNX
R054	RES CF 10K 5% 0W166	18-CB0103-JNX
R101	RES CF 47K 5% 0W166	18-CB0473-JNX
R102	RES CF 150R 5% 0W166	18-CB0151-JNX
R103	RES CF 470R 5% 0W166	18-CB0471-JNX
R106	RES CF 1K 5% 0W166	18-CB0102-JNX
R107	RES CF 56R 5% 0W166	18-CB0560-JNX
R108	RES CF 150R 5% 0W166	18-CB0151-JNX
R201	RES CF 330R 5% 0W166	18-CB0331-JNX
R202	RES CF 8K2 5% 0W166	18-CB0822-JNX
R203	RES CF 100R 5% 0W166	18-CB0101-JNX

Main Board (cont)		
Position	Description	Part Number
Resisitors (cont)		
R203A	RES CF 3K9 5% 0W166	18-CB0392-JNX
R204	RES CF 10R 5% 0W166	18-CB0100-JNX
R208	RES CF 470R 5% 0W166	18-CB0471-JNX
R208A	RES CF 22K 5% 0W166	18-CB0223-JNX
R209	RES CF 270R +/-5% 0W5	18-CE0271-JNX
R210	RES CF 100K 5% 0W166	18-CB0104-JNX
R211	RES CF 470R 5% 0W166	18-CB0471-JNX
R212	RES CF 3K3 5% 0W166	18-CB0332-JNX
R213	RES CF 100R 5% 0W166	18-CB0101-JNX
R214	RES CF 330R 5% 0W166	18-CB0331-JNX
R215	RES CF 270R 5% 0W166	18-CB0271-JNX
R216	RES CF 3K3 5% 0W166	18-CB0332-JNX
R217	RES CF 120R 0.5% 0W166	18-CB0121-JNX
R218	RES CF 150R 5% 0W166	18-CB0151-JNX
R219	RES CF 47K 5% 0W166	18-CB0473-JNX
R220	RES C F 51K +/-5% 0W166	18-CB0513-JNX
R221	RES CF 22K 5% 0W166	18-CB0223-JNX
R223	RES CF 22K 5% 0W166	18-CB0223-JNX
R224	RES CF 10K 5% 0W166	18-CB0103-JNX
R225	RES CF 33K 5% 0W166	18-CB0333-JNX
R226	RES CF 47K 5% 0W166	18-CB0473-JNX
R227	RES CF 10K 5% 0W166	18-CB0103-JNX
R228	RES CF 150R 5% 0W166	18-CB0151-JNX
R231	RES CF 100R 5% 0W166	18-CB0101-JNX
R232	RES CF 330R 5% 0W166	18-CB0331-JNX
R233	RES CF 1K 5% 0W166	18-CB0102-JNX
R235	RES CF 100K 5% 0W166	18-CB0104-JNX
R236	RES CF 100K 5% 0W166	18-CB0104-JNX
R237	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
R240	RES CF 220K 5% 0W166	18-CB0224-JNX
R241	RES CF 30K 5% 0W166	18-CB0303-JNX
R243	RES CF 270R 5% 0W166	18-CB0271-JNX
R244	RES CF 270R 5% 0W166	18-CB0271-JNX
R245	RES CF 270R 5% 0W166	18-CB0271-JNX
R246	RES CF 10K 5% 0W166	18-CB0103-JNX
R250	RES CF 220R 5% 0W166	18-CB0221-JNX
R253	RES CF 3K3 5% 0W166	18-CB0332-JNX
R256	RES CF 8K2 5% 0W166	18-CB0822-JNX
R301	RES FUS 1R 5% 2W	18-EG0109-JHX
R302	RES CF 3K6 5% 0W166	18-CB0362-JNX
R303	RES CF 3K9 5% 0W166	18-CB0392-JNX
R304	RES CF 1R 5% 0W5	18-CE0109-JNX
R305	RES CF 10K 5% 0W166	18-CB0103-JNX
R306	RES CF 33K 5% 0W166	18-CB0333-JNX
R307	RES CF 2K2 5% 0W166	18-CB0222-JNX
R308	RES MF 12K +/-1% 0W25	18-DD0123-FNX
R309	RES M O 1.5R +/-5% 0W5	18-FE0159-JNX
R310	RES MO 120R 5% OW5	18-FE0121-JNX
R311	RES MO 220R 5% 1W	18-FF0221-JGX
R314	RES CF 10K 5% 0W166	18-CB0103-JNX
R315	RES CF 4K7 5% 0W166	18-CB0472-JNX
R316	RES MO 4K7 5% 0W5	18-FE0472-JNX
R401	RES CF 220R 5% 0W166	18-CB0221-JNX
R402	RES MO 2K4 5% 1W	18-FF0242-JGX
R404	RES CEMENT 3K +/-10% 7W	18-GM0302-KTX

Main Board (cont)		
Position	Description	Part Number
Resisitors (cont)		
R412	RES CF 2K 5% 0W166	18-CB0202-JNX
R413	RES CF 12K 5% 0W166	18-CB0123-JNX
R414	RES CF 56K 5% 0W166	18-CB0563-JNX
R415	RES MO 3R9 5% 2W	18-FG0399-JHX
R416	RES CF 4K7 5% 0W166	18-CB0472-JNX
R417	RES CF 2K2 5% 0W166	18-CB0222-JNX
R418	RES CF 68K 5% 0W166	18-CB0683-JNX
R419	RES MO 680R 5% 1W	18-FF0681-JGX
R420	RES CF 4K7 5% 0W166	18-CB0472-JNX
R421	RES M O 10K +/-5% 2W	18-FG0103-JHX
R422	RES FUS 1R 5% 2W	18-EG0109-JHX
R423	RES CF 2K2 5% 0W166	18-CB0222-JNX
R431	RES FUS 1R 5% 2W	18-EG0109-JHX
R432	RES CF 18K 5% 0W166	18-CB0183-JNX
R453	RES CF 1K 5% 0W166	18-CB0102-JNX
R461	RES FUSE 2.2OHM +/-5% 2W	18-EG0229-JHX
R602	RES CF 4K7 5% 0W166	18-CB0472-JNX
R604	RES CF 1K 5% 0W166	18-CB0102-JNX
R607	RES CF 10K 5% 0W166	18-CB0103-JNX
R608	RES CF 330R 5% 0W166	18-CB0331-JNX
R609	RES CF 330R 5% 0W166	18-CB0331-JNX
R610	RES CF 47K 5% 0W166	18-CB0473-JNX
R611	RES CF 1K 5% 0W166	18-CB0102-JNX
R612	RES CF 4K7 5% 0W166	18-CB0472-JNX
R613	RES C.F 8.2 OHM +/-5% 0W25	18-CD0829-JNX
R614	RES M O 0.22R +/-5% 2W	18-FG0228-JHX
R615	RES CF 2K2 5% 0W166	18-CB0222-JNX
R616	RES CF 22K 5% 0W166	18-CB0223-JNX
R617	RES CF 33K 5% 0W166	18-CB0333-JNX
R618	DIODE 1N4148	10-1N4148-ABX
R619	RES CF 100K 5% 0W166	18-CB0104-JNX
R620	RES C.F 8.2 OHM +/-5% 0W25	18-CD0829-JNX
R630	RES CF 22K 5% 0W166	18-CB0223-JNX
R631	RES CF 22K 5% 0W166	18-CB0223-JNX
R632	RES CF 22K 5% 0W166	18-CB0223-JNX
R633	RES CF 22K 5% 0W166	18-CB0223-JNX
R804	RES MF 0.1M +/-1% 0W25	18-DD0104-FNX
R804A	RES MF 4.7K 4.7K +/-1% 0W25	18-DD0472-FNX
R805	RES CC 1M 5% 0W5	18-KE0105-JN1
R806	RES CF 4K7 5% 0W166	18-CB0472-JNX
R807	RES CF 3K9 5% 0W166	18-CB0392-JNX
R808	RES CEMENT 22K +/-10%	18-GJ0223-KTX
R809	RES CF 1K 5% 0W166	18-CB0102-JNX
R810	RES WIRE ROUND 0.22R 5% 2W	18-GG0228-JHX
R811	RES CF 470R 5% 0W25	18-CD0471-JNX
R811A	RES CF 22R 5% 0W25	18-CD0220-JNX
R812A	RES H.VOLT CC 8.2M +/-5% 1W	18-KF0825-JH3
R820	RES CF 10K 5% 0W25	18-CD0103-JNX
R831	RES MF 82K +/-1% 0W5	18-DE0823-FNX
R832	RES CF 4.7 OHM 5% OW5	18-CE0479-JNX
R833	RES CF 220R 5% 0W25	18-CD0221-JNX
R834	RES CF 3K3 5% 0W166	18-CB0332-JNX
R835	RES MF 3.9K +/-1% 0W25	18-DD0392-FNX
R835A	RES CF 10K 5% 0W166	18-CB0103-JNX
R836	RES CEMENT 10K +/-10% 5W	18-GJ0103-KTX

Main Board (cont)

Position	Description	Part Number
Resisitors (cont)		
R837	RES MO 33K +/-5% 2W	18-FG0333-JHX
R838	RES CF 33K 5% 0W166	18-CB0333-JNX
R839	RES MO 22K 5% 2W	18-FG0223-JHX
R844	RES CF 10K 5% 0W166	18-CB0103-JNX
R901	RES CF 82R 5% 0W166	18-CB0820-JNX
R902	RES CF 82R 5% 0W166	18-CB0820-JNX
R903	RES CF 2K2 5% 0W166	18-CB0222-JNX
R904	RES CF 1K 5% 0W166	18-CB0102-JNX
R905	RES CF 22K 5% 0W166	18-CB0223-JNX
R906	RES CF 1K 5% 0W166	18-CB0102-JNX
R907	RES CF 100K 5% 0W166	18-CB0104-JNX
R908	RES CF 82R 5% 0W166	18-CB0820-JNX
R909	RES CF 2K2 5% 0W166	18-CB0222-JNX
R910	RES CF 1K 5% 0W166	18-CB0102-JNX
R911	RES CF 22K 5% 0W166	18-CB0223-JNX
R912	RES CF 1K 5% 0W166	18-CB0102-JNX
R913	RES CF 22K 5% 0W166	18-CB0223-JNX
R922	RES CF 75R 5% 0W166	18-CB0750-JNX
R923	RES CF 1K 5% 0W166	18-CB0102-JNX
R924	RES CF 1K 5% 0W166	18-CB0102-JNX
R925	RES CF 1K 5% 0W166	18-CB0102-JNX
R926	RES CF 1K 5% 0W166	18-CB0102-JNX
R927	RES CF 47R 5% 0W166	18-CB0470-JNX
R928	RES CF 220R 5% 0W166	18-CB0221-JNX
R929	RES CF 220R 5% 0W166	18-CB0221-JNX
R930	RES CF 100R 5% 0W166	18-CB0101-JNX
R931	RES CF 1K 5% 0W166	18-CB0102-JNX
R932	RES CF 22K 5% 0W166	18-CB0223-JNX
R933	RES CF 15K 5% 0W166	18-CB0153-JNX
R934	RES CF 680R 5% 0W166	18-CB0681-JNX
R935	RES CF 390K 5% 0W166	18-CB0394-JNX
R936	RES CF 68K 5% 0W166	18-CB0683-JNX
R937	RES CF 12K 5% 0W166	18-CB0123-JNX
R938	RES CF 22K 5% 0W166	18-CB0223-JNX
R939	RES CF 22K 5% 0W166	18-CB0223-JNX
R940	RES CF 22K 5% 0W166	18-CB0223-JNX
R941	RES CF 22K 5% 0W166	18-CB0223-JNX
R942	RES CF 22K 5% 0W166	18-CB0223-JNX
R943	RES CF 100K 5% 0W166	18-CB0104-JNX
R944	RES CF 330R 5% 0W166	18-CB0331-JNX
R945	RES CF 2K2 5% 0W166	18-CB0222-JNX
R946	RES CF 2K2 5% 0W166	18-CB0222-JNX
R946A	RES CF 2K2 5% 0W166	18-CB0222-JNX
R950	RES CF 1K 5% 0W166	18-CB0102-JNX
R950A	RES CF 1K 5% 0W166	18-CB0102-JNX
R951	RES CF 1K 5% 0W166	18-CB0102-JNX
R951A	RES CF 1K 5% 0W166	18-CB0102-JNX
RT801	PTC 20 OHM	22-PTC200-XX0
RT802	NTC 4.7OHM +/-18%	22-NTC479-XX0
VR829	TRIMMER B5K HORIZ TYPE	20-TR502H-5CX

Main Board (cont)

Position	Description	Part Number
Transistors		
Q003	TRANS 2SC1815Y	11-SC1815-YBX
Q004	TRANS 2N3904	11-2N3904-0BX
Q007	TRANS 2SC1815Y	11-SC1815-YBX
Q008	TRANS 2SA1015Y	11-SA1015-YBX
Q101	TRANS 2SC3779D (RF AMPL)	11-SC3779-DBX
Q201	TRANS 2SC1815Y	11-SC1815-YBX
Q202	TRANS 2SC1815Y	11-SC1815-YBX
Q203	TRANS 2SC1815Y	11-SC1815-YBX
Q204	TRANS 2SC1815Y	11-SC1815-YBX
Q205	TRANS 2SC1815Y	11-SC1815-YBX
Q210	TRANS 2SK2541 (N-CHANNEL)	11-SK2541-0BX
Q211	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q212	TRANS 2SC1815Y	11-SC1815-YBX
Q215	TRANS 2SA1015Y	11-SA1015-YBX
Q401	TRANS 2SC2482	11-SC2482-0BX
Q411	TRANS 2SD2539	11-SD2539-0AX
Q412	TRANS 2SA1015Y	11-SA1015-YBX
Q413	TRANS 2SA1015Y	11-SA1015-YBX
Q414	TRANS IRF630MFP	11-630MFP-0AX
Q451	TRANS 2SC1815Y	11-SC1815-YBX
Q601	TRANS 2SA1015Y	11-SA1015-YBX
Q602	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q630	TRANS 2SC1815Y	11-SC1815-YBX
Q631	TRANS 2SC1815Y	11-SC1815-YBX
Q801	HEATSINK	67-H35984-2A0
Q801	TRANS 2SK2996	11-SK2996-0AX
Q830	TRANS. 2SC2688L	11-SC2688-LAX
Q831	TRANS 2SC1815Y	11-SC1815-YBX
Q832	TRANS 2SC1815Y	11-SC1815-YBX
Q833	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q834	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q909	TRANS 2SC1815Y	11-SC1815-YBX
Q910	TRANS 2SC1815Y	11-SC1815-YBX
Q911	TRANS 2SC1815Y	11-SC1815-YBX
Q912	TRANS 2SA1015Y	11-SA1015-YBX
Q913	TRANS 2SC1815Y	11-SC1815-YBX
Q914	TRANS 2SC1815Y	11-SC1815-YBX
Q915	TRANS 2SA1015Y	11-SA1015-YBX
Q916	TRANS 2SA1015Y	11-SA1015-YBX
Miscellaneous Electrical		
	FUSE 3.15AT 250VAC 5 x 20mm	50-03150D-1GS1
TU101	TUNER38.9MHZ RCA 5V	07-389VR5-NX2
Miscellaneous Mechanical		
	FUSE HOLDER qty 2	66-20516X-0B0
	M/C SCREW B 3x10	64-B30100-104
	M/C SCREW P 3x8 qty 7	64-P30080-104
	MAIN BD BRACKET	62-2922MB-0UN
	NUT M3 qty 2	65-Z30050-23M
	S/T SCREW W 3 x 10MM AB qty 7	63-W30100-AB4
	SCREW ST 3MM 10MM BT qty 2	63-B30100-BT4
	Washer Fibre 3.3x10x0.8MM qty 2	54-128700-0X0

Power Switch Board

Position	Description	Part Number
Connector		
S801A	HS UL1672-2P22 200	46-30991H-02X
S801B	PIN BASE *2 TJC1-2A	46-28559W-02X
Switch		
SW801	SWITCH POWER KDC A04	48-POW007-XX0
Miscellany		
	M/C SCREW 3MM 6MM B qty 2	64-B30060-104
	POWER CORD 3R/P W/HOUSING	51-KC0245-0CH
	POWER SW ADAPTER	62-269940-0HA
	SCREW ST 3MM 10MM BT qty 2	63-B30100-BT4
	SWITCH STATOR	67-395310-0G0
	Washer Fibre 3.3x10x0.8mm qty 2	54-128700-0X0

AV Board

Connectors		
P1304	JACK RCA AV YELLOW	47-RCA003-XX0
P1305	JACK RCA AV WHITE	47-RCA002-XX0
P1306	JACK RCA JPJ5022-01-020 RED	47-239300-00X
P1307	JACK RCA AV YELLOW	47-RCA003-XX0
P1308	JACK RCA AV WHITE	47-RCA002-XX0
P1309	JACK RCA AV	47-RCA001-XX0
P1316	HS 2468 # 24 260 TJC3-7Y	46-30775H-07X
Miscellany		
	REAR AV BRACKET	62-2922TB-0HN
	S/T SCREW B 3x10MM AB qty 4	63-B30100-AB4

Side AV Board

Connectors		
P961	SOCKET S-W16-J	47-SVI002-XX0
P962	Jack RCA 3PH 8MM YL WH RD/SW	47-RCA041-XX0
P963	HS 7P 600 TJC3-7Y	46-38610H-07X
Miscellany		
	FIBER WASHER	54-295210-0V0
	INLAY SIDE AV	58-2922SI-1UI1A
	S/T SCREW W 3MM 10MM AB qty 2	63-W30100-AB4
	SIDE AV BRACKET	62-2922SB-0HA5B
	STATOR	67-388190-0G0

Remote Sensor Board

Capacitors		
C080	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
Connectors		
P005A	PIN BASE *4 TJC3-4A	46-33079W-04X

Remote Sensor Board (cont)

Position	Description	Part Number
Diodes		
D080	LED RED FB205	14-LED05R-XX1
Remote Sensor		
IR001	IR RECEIVER MODULE	11-IRR001-1X0
Resistors		
R089	RES CF 47R 5% 0W166	18-CB0470-JNX
R090	RES CF 1K 5% 0W166	18-CB0102-JNX
R091	RES CF 22K 5% 0W166	18-CB0223-JNX
Transistors		
Q081	TRANS 2SA1015Y	11-SA1015-YBX
Q082	TRANSISTOR PDTC124ES	11-C124ES-0BX
Miscellany		
	BRACKET	62-388170-0HA
	LED BRACKET	62-388160-0HA
	SCREW ST 3MM 10MM BT qty 2	63-B30100-BT4

Key Switch Board

Connectors		
P005	HS 5P 2468#24 400MM	46-39161H-05X
P005B	HS 4P 2468#24 200	46-38570H-04X
Resistors		
R081	RES CF 10K 5% 0W166	18-CB0103-JNX
R082	RES CF 1K5 5% 0W166	18-CB0152-JNX
R083	RES CF 1K8 5% 0W166	18-CB0182-JNX
R084	RES CF 2K7 5% 0W166	18-CB0272-JNX
R085	RES CF 4K3 5% 0W166	18-CB0432-JNX
R086	RES.CF 6.2K +/-5% 0W166	18-CB0622-JNX
R087	RES CF 10K 5% 0W166	18-CB0103-JNX
Switches		
S001	TACT SWITCH KFC-A06A-12	48-TAC026-XX0
S002	TACT SWITCH KFC-A06A-12	48-TAC026-XX0
S003	TACT SWITCH KFC-A06A-12	48-TAC026-XX0
S004	TACT SWITCH KFC-A06A-12	48-TAC026-XX0
S005	TACT SWITCH KFC-A06A-12	48-TAC026-XX0
S006	TACT SWITCH KFC-A06A-12	48-TAC026-XX0
S007	TACT SWITCH KFC-A06A-12	48-TAC026-XX0
Miscellany		
	S/T SCREW 3MM 8MM BT qty 5	63-B30080-BT4

Accessories

	Remote Controller	06-015W34-A111X
	OPERATION MANUAL	72-2922XE-E321A

M113 chassis

Tedelex Colour TV
EC2559 64 cm

PARTS LIST

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Boards and Assemblies

Position	Description	Part Number
	Remote Control	06-015W34-A171X
	CRT Base Board	EC2559-L
	Main Board	EC2559-O
	Front Control Board	EC2559-T
	Side AV Board	EC2559-U

Cabinet Front

	ASSY CRT GND WIRE & HOUS.	02-GND025-XX0
	BRACKET ABS-KINGFA 606	62-227680-0UA
	CRT 25"64SX502Y22-DC02 FORTUNE	NC013+AA026
	DEGAUSSING COIL	36-DEG250-XX1
	EXT TOOTH WASHTER qty4	65-A60180-20E
	FRONT CABINET	55-C159FC-0CN1D
	HOLDER POWER CORD	62-216340-0UA
P602H	HS 2P22 600/7 F/W TJC3-2Y	46-27580H-02X
P602H	HS 2P24 570/5 F/W	46-35196H-02X
P601H	HS 2P24 570/7 F/W S11-02H	46-14026H-02X
P411H	HS 4P A/B 400/13 RBGW	46-27688H-04X
	INLAY SIDE AV	58-377140-1UI1A
	INLAY SIDE AV	58-C159SI-0UIAA
	LENS	56-C159LE-0HCAA
	LOGO (TEDELEX)	67-366140-3A0AC
	PAD RUBBER 25MM 7MM qty2	59-130460-00X
	POWER KNOB	56-C159PK-0HA5B
	PUSH BUTTON	56-C159FB-0HA5B
	S/T SCREW H 6MM 25MM AB qty4	63-H60250-AB4
	S/T SCREW W 3MM 10MM AB qty4	63-W30100-AB4
	S/T SCREW W 3MM 14MM HS qty8	63-W30140-HS4
	SPACER CRT MOUNTING 2MM qty4	54-205140-000
	SPEAKER 8 OHM 8W qty2	42-61308F-XX3
	SPEAKER GRILLE	56-C159SL-0HN5B
	SPEAKER GRILLE	56-C159SR-0HN5B
	SPEAKER RUBBER CUSHION	59-312160-000
	SPRING CRT qty2	67-X21679-0E0
	SPRING POWER KNOB	67-X24283-0E0

Cabinet Rear

	INLAY REAR AV	58-2506RI-DUI1A
	PAD RUBBER 25MM 7MM qty2	59-130460-00X
	PLATE MODEL NO.	58-2559MP-0UI1C
	REAR CABINET	08-2559BE-RCN
	S/T SCREW B 4x20 AB qty8	63-B40200-AB3
	S/T SCREW F 3x10 BT qty2	63-F30100-BT3

CRT Base Board

Capacitors

C501	CAP CER 390PF +/-5% 50V	26-EBP391-JCX
C502	CAP CER 390PF +/-5% 50V	26-EBP391-JCX
C503	CAP CER 470PF +/-5% 50V	26-EBP471-JCX
C504	CAP ELEC 10UF +/-20% 250V	25-BLA100-M1X
C505	CAP CER 1000PF +/-10% 2KV	26-AMK102-KRX
C506	CAP ELCO 470UF 20% 16V	25-BCB471-M1X
C508	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C509	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX

Connectors

P501	PIN BASE *1 TJC1-1A	46-10967W-01X
P502	HS 4P24 460 F/W TJC3-4Y/SCN-4	46-30615H-04X
P503	HS 5P 2468#24 450 TJC3-5Y	46-37030H-05X
S501	CRT SOCKET	47-CRT004-XX0

Diodes

D501	DIODE 1N4148	10-1N4148-ABX
D502	DIODE 1N4148	10-1N4148-ABX
L501	DIODE 1N4148	10-1N4148-ABX

CRT Base Board (cont)

Filters, Inductors

L502	COIL CHOKE 10UH +/-10%	34-R100K2-1BX
L503	COIL CHOKE 5U6H 10%	34-R569K2-1BX
L505	BEAD FERRITE HF70	35-237250-00X
L506	BEAD FERRITE HF70	35-237250-00X

Resistors

R501	RES CF 560R 5% 0W166	18-CB0561-JNX
R502	RES CF 680R 5% 0W166	18-CB0681-JNX
R503	RES CF 680R 5% 0W166	18-CB0681-JNX
R505	RES CF 560R 5% 0W166	18-CB0561-JNX
R506	RES CF 680R 5% 0W166	18-CB0681-JNX
R508	RES CF 680R 5% 0W166	18-CB0681-JNX
R509	RES CF 680R 5% 0W166	18-CB0681-JNX
R510	RES CF 560R 5% 0W166	18-CB0561-JNX
R511	RES CF 680R 5% 0W166	18-CB0681-JNX
R513	RES CF 680R 5% 0W166	18-CB0681-JNX
R514	RES CF 2K7 5% 0W166	18-CB0272-JNX
R515	RES CF 1K 5% 0W166	18-CB0102-JNX
R516	RES MO 15K 5% 2W	18-FG0153-JHX
R517	RES MO 15K 5% 2W	18-FG0153-JHX
R518	RES MO 15K 5% 2W	18-FG0153-JHX
R519	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R520	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R521	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R522	RES CF 680R 5% 0W166	18-CB0681-JNX

Transistors

Q501	TRANS 2SC4544	11-SC4544-0AX
Q502	TRANS 2SC1815Y	11-SC1815-YBX
Q503	TRANS 2SC4544	11-SC4544-0AX
Q504	TRANS 2SC1815Y	11-SC1815-YBX
Q505	TRANS 2SC4544	11-SC4544-0AX
Q506	TRANS 2SC1815Y	11-SC1815-YBX
Q507	TRANSISTOR 2SA562TM-0	11-A562TM-0BX

Main Board

Capacitors

C002	CAP CER 1500PF +/-10% 50V	26-EBP152-KBX
C003	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C004	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C005	CAP PE 0.22UF +/-5% 63V	27-PBC224-J0X
C006	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C007	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C008	CAP CER 27PF +/-5% 50V	26-EBP270-JCX
C009	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C020	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C021	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C022	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C023	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C024	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C027	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C028	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C029	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C030	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C031	CAP CER 39PF +/-5% 50V	26-EBP390-JCX
C032	CAP CER 39PF +/-5% 50V	26-EBP390-JCX
C033	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C034	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C035	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C042	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C043	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C101	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X

Main Board (cont.)

Position	Description	Part Number
Capacitors (cont.)		
C102	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C105	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C106	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C107	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C108	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C109	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C210	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C211	CAP ELCO 0.47UF +/-10% 50V	25-GFB478-K1X
C213	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C214	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C216	CAP ELCO 0.22UF +/-20% 50V	25-BFB228-M1X
C217	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C218	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C219	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C220	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C221	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C222	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C223	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C224	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C225	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C226	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C227	CAP ELCO 0.47UF +/-10% 50V	25-GFB478-K1X
C228	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C229	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C230	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C231	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C232	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C233	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C234	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C235	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C236	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C237	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C238	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C239	CAP CER 470PF +/-5% 50V	26-EBP471-JCX
C240	CAP CER 100PF +/-5% 50V	26-EBP101-JCX
C241	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C241A	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C242	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C243	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C244	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C245	CAP ELCO 1000UF 20% 16V	25-BCA102-M1X
C246	CAP ELCO 0.47UF +/-10% 50V	25-GFB478-K1X
C247	CAP PE 0.0082UF +/-5% 50V	27-PBC822-J0X
C248	CAP ELCO 0.47UF +/-10% 50V	25-GFB478-K1X
C250	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C251	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C252	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C253	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C301	CAP ELCO 470UF 35V +/-20%	25-BEA471-M1X
C302	CAP ELCO 220UF +/-20% 35V	25-BEA221-M1X
C303	CAP CER 10PF +/-5% 50V	26-EBP100-JCX
C304	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C305	CAP PE 0.22UF +/-5% 63V	27-PBC224-J0X
C306	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C307	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C308	CAP ELCO 2200UF 20% 35V	25-BEG222-M1X
C309	CAP MPE 0.039UF +/-5% 63V	27-MBC393-J0X
C311	CAP MPE 2700PF +/-5% 100V	27-MCB272-J0X
C401	CAP ELCO 4.7UF +/-20% 160V	25-BJB479-M1X
C402	CAP CERCO B 3N3F 10% 500V	26-AIC332-KBX
C403	CAP CERCO 390PF 10% 500V	26-AIC391-KBX
C411	CAP M. PP 0.0033UF +/-5% 1.6KV	27-ALQ332-J0X
C412	CAP MPP 0.0092UF +/-5% 1.6KV	27-ALR922-J0X
C413	CAP PP 0U022F 5% 400V	27-RHQ223-J0X
C414	CAP MPP 3900PF +/-5% 1.6KV	27-ALQ392-J0X

Main Board (cont.)

Position	Description	Part Number
Capacitors (cont.)		
C415	CAP ELEC 4.7UF +/-20% 50V	25-264610-M1X
C416	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C417	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C418	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C419	CAP M PP 0.43UF +/-5% 250V	27-AGQ434-JSX
C421	CAP ELCO 10UF +/-20% 200V	25-BKA100-M1X
C422	CAP ELCO 100UF 20% 160V	25-BJG101-M1X
C431	CAP CERCO B 220PF 10% 500V	26-AIC221-KBX
C432	CAP ELCO 1000UF 20% 35V	25-BEA102-M1X
C441	CAP CERCO B 220PF 10% 500V	26-AIC221-KBX
C442	CAP ELCO 10UF +/-20% 250V	25-BLF100-M11
C451	CAP PP 0.056UF +/-5% 400V	27-RHQ563-J0X
C601	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C602	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C603	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C604	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C605	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C607	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C608	CAP MPE 0.33UF 5% 63V	27-MBC334-J0X
C610	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C611	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C612	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C613	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C614	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C615	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C616	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C617	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C618	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C619	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C620	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C622	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C623	CAP ELCO 1000UF 25V +/-20%	25-BDA102-M1X
C624	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C625	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C626	CAP M P E 0.01UF +/-5% 63V	27-MBC103-J0X
C627	CAP MPE 0.47UF 5% 50V	27-MBC474-J0X
C628	CAP M P E 0.01UF +/-5% 63V	27-MBC103-J0X
C629	CAP MPE 0.47UF 5% 50V	27-MBC474-J0X
C630	CAP ELCO 330UF +/-20% 16V	25-BCB331-M1X
C631	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C632	CAP ELCO 10UF +/-20% 25V	25-BDB100-M1X
C633	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C643	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C645	CAP MPE 0.0047UF +/-5% 63V	27-MBC472-J0X
C646	CAP MPE 0.0047UF +/-5% 63V	27-MBC472-J0X
C647	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C650	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C651	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C652	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C653	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C654	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C655	CAP M P E 0.047UF +/5% 63V	27-MBC473-J0X
C656	CAP MPE 0.033UF 5% 63V	27-MBC333-J0X
C657	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C801	CAP M PP 0.22UF 20% CB 250VAC	27-AQT224-MVH
C802	CAP M PP 0.22UF 20% CB 250VAC	27-AQT224-MVH
C802A	CAP METAL PE 0.1UF 10% 400V	27-MHM104-K0X
C803	CAP CERCO 470PF +/-10% 400VAC	26-APK471-KBX
C804	CAP CERCO 470PF +/-10% 400VAC	26-APK471-KBX
C804A	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C805	CAP CERCO B 0U01F 10% 500V	26-AIM103-KBX
C806	CAP ELCO 220UF +/-20% 400V	25-BMJ221-M1X
C807	CAP CERCO 4700PF +80-20 250VAC	26-AQK472-ZFX
C808	CAP CERCO 4700PF +80-20 250VAC	26-AQK472-ZFX
C809	CAP PP 4700PF +/-5% 630V	27-RJK472-J0X

Main Board (cont.)

Position	Description	Part Number
Capacitors (cont.)		
C812	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C813	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C814	CAP CER 100PF +/-5% 50V	26-EBP101-JCX
C816	CAP CER 2200PF +/-20% 400VAC	26-APK222-MEX
C817	CAP CER 330PF +/-5% 2KV	26-AMK331-JZX
C818	CAP CER 1500PF +/-10% 2KV	26-AMK152-KRX
C820	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C830	CAP CER 220PF +-/10% 250V	26-AGK221-KRX
C831	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C832	CAP ELCO 1000UF 20% 35V	25-BEA102-M1X
C833	CAP CER 220PF +/-10% 1KV	26-AKK221-KRX
C834	CAP CERCO B 0U01F 10% 500V	26-AIM103-KBX
C835	CAP ELCO 220UF 20% 160V	25-BJG221-M1X
C840	CAP ELCO 100UF 20% 35V	25-BEB101-M1X
C841	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C842	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C843	CAP ELCO 470UF 20% 16V	25-BCB471-M1X
C844	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C845	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C846	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C849	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C863	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C864	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C901	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C902	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C903	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C904	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C905	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C906	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C910	CAP ELCO 220UF 20% 16V	25-BCB221-M1X
C911	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C912	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C913	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C914	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C916	CAP CER CH 33PF +/-5% 50V	26-EBP330-JCX
C917	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C918	CAP ELCO 0.47UF +/-10% 50V	25-GFB478-K1X
C919	CAP CER 180PF +/-5% 50V	26-EBP181-JCX
C920	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C921	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C922	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C923	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C930	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C930A	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C931A	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
Connectors		
P001	PIN BASE *5 TJC3-5A	46-33079W-05X
P002	PIN BASE *3 TJC3-3A	46-33079W-03X
P201	PIN BASE *5 TJC3-5A	46-33079W-05X
P411	PIN BASE *4 TJCI-4A	46-20598W-04X
P421	PIN BASE *4 TJC3-4A	46-33079W-04X
P601	PIN BASE *2 S11-02W	46-12866W-02X
P602	PIN BASE *2 TJC3-2A	46-33079W-02X
P901	RCA JACK 3PV, Yel ,Wht, Red/Sw	47-RCA023-XX1
P904	RCA JACK 3PV, Yel ,Wht, Red/Sw	47-RCA023-XX1
P921	PIN BASE *7 TJC3-7A	46-33079W-07X
S801	PIN BASE *2 TJC1-2A	46-28559W-02X
S803	PIN BASE *2 TJC2-2A	46-10962W-02X
Diodes		
D001	DIODE ZENER 5V1 5% 0W5	10-79C5V1-DBX
D201	DIODE 1N4148	10-1N4148-ABX
D202	DIODE 1N4148	10-1N4148-ABX
D203	DIODE 1N4148	10-1N4148-ABX
D204	DIODE 1N4148	10-1N4148-ABX

Main Board (cont.)

Position	Description	Part Number
Diodes (cont.)		
D205	DIODE 1N4148	10-1N4148-ABX
D301	DIODE 1N4001 (RECTIFIER)	10-1N4001-EBX
D303	DIODE ZENER 8V2 5% 0W5	10-79C8V2-DBX
D411	DIODE BY228 (FAST RECTIFIER)	10-0BY228-F0X
D412	DIODE FR104	10-0FR104-FBX
D421	DIODE FR104	10-0FR104-FBX
D431	DIODE FR104	10-0FR104-FBX
D441	DIODE FR104	10-0FR104-FBX
D601	DIODE 1N4148	10-1N4148-ABX
D602	DIODE 1N4148	10-1N4148-ABX
D603	DIODE 1N4148	10-1N4148-ABX
D605	DIODE ZENER 3V9 5% 0W5	10-79C3V9-DBX
D802	DIODE FR154	10-0FR154-FBX
D804	DIODE 1N4148	10-1N4148-ABX
D805	DIODE 1N4148	10-1N4148-ABX
D806	DIODE EG01C (FAST RECOVERY)	10-0EG01C-FBX
D830	DIODE TRU3YX	10-TRU3YX-F0X
D831	DIODE TRU3AM	10-TRU3AM-F0X
D833	DIODE FR154	10-0FR154-FBX
D834	DIODE ZENER UPC 574J	10-PC574J-DJX
D836	DIODE 1N4001 (RECTIFIER)	10-1N4001-EBX
D838	DIODE ZENER 12V 1/2W 5%	10-79C12V-DBX
D840	DIODE 500mW 5.6HSB	10-HS5V6B-DBX
D841	DIODE ZENER 8V2 5% 0W5	10-79C8V2-DBX
DB801	DIODE T3SB60	10-T3SB60-H7X
J616	DIODE 1N4148	10-1N4148-ABX
Filters, Inductors, Resonators, Transformers		
J617	COIL PL 10UH 5%	34-R100J2-0EX
L002	COIL PL 10UH 5%	34-R100J2-0EX
L101	COIL PL 47UH 5%	34-R470J2-0EX
L102	COIL CHOKE 1UH 10%	34-A109K0-1IX
L201	COIL PL 22UH 5%	34-R220J2-0EX
L202	COIL PL 22UH 5%	34-R220J2-0EX
L203	COIL PL 8U2H 5%	34-R829J2-0EX
L204	COIL PL 8U2H 5%	34-R829J2-0EX
L206	COIL PL 22UH 5%	34-R220J2-0EX
L207	COIL PL 27UH +/-5%	34-R270J2-0EX
L208	COIL PL 10UH 5%	34-R100J2-0EX
L413	COIL WIDTH 800UH	36-WID801-XX1
L414	LINEARITY COIL	36-LIN210-XX1
L801	COIL CHOKE 100UH 10%	34-R101K2-1BX
L802	COIL CHOKE 100UH 10%	34-R101K2-1BX
L810	BEAD FERRITE HF70	35-237250-00X
L811	BEAD FERRITE HF70	35-237250-00X
L812	BEAD FERRITE HF70	35-237250-00X
L813	BEAD FERRITE HF70	35-237250-00X
L814	FERRITE BEAD BF60	35-139730-00X
L815	FERRITE BEAD BF60	35-139730-00X
L816	FERRITE BEAD	35-LB1005-0IX
T401	TRANSF. HOR DRIVE	36-HDR001-AX1
T461	FLYBACK BSC29-0165	37-BSC290-1650X
T801	LINE FILTER	36-LIF005-XX0
T803	TRANSFO CONV BCK	36-TRF046-XX1
X001	CRYSTAL 8.0MHZ	45-0SC8M0-0Y0
X201	CER TRAP 6.5MHZ	45-TRA6M5-0Y0
X202	CER TRAP 6.0MHZ	45-TRA6M0-0Y0
X203	CER TRAP 5.5MHZ	45-TRA5M5-0Y0
Z101	SAW FILTER K2966M	45-SAW296-6M00G
Integrated Circuits		
IC001	IC M2408 EEPROM 8K	13-00M24C-08P
IC101	IC TCL-A20V02-T0	13-A20V02-TOP
IC301	HEATSINK	67-H30179-7A0
IC301	IC TDA8172	13-0TDA81-72S
IC601	IC NJW1136L	13-NJW113-6LP

Main Board (cont.)

Position	Description	Part Number
Integrated Circuits (cont.)		
IC602	HEATSINK	67-H34423-4A0
IC602	IC TDA8944J	13-TDA894-4JS
IC801	IC MC44608P40	13-44608P-40P
IC802	PHOTOCOUPLER PC123Y92	13-PC123Y-92P
IC803	IC MC7809CT	13-MC7809-CTS
IC804	IC L7805C-VAP	13-L7805C-VAP
IC901	IC 4052	13-000040-52P
IC902	IC 4052	13-000040-52P
Resistors		
J205	RES CF 10K 5% 0W166	18-CB0103-JNX
J219	RES CF 3K3 5% 0W166	18-CB0332-JNX
R001	RES CF 2K7 5% 0W166	18-CB0272-JNX
R002	RES CF 2K7 5% 0W166	18-CB0272-JNX
R003	RES CF 1K 5% 0W166	18-CB0102-JNX
R004	RES CF 1K 5% 0W166	18-CB0102-JNX
R005	RES CF 22K 5% 0W166	18-CB0223-JNX
R006	RES CF 10K 5% 0W166	18-CB0103-JNX
R007	RES CF 3K9 5% 0W166	18-CB0392-JNX
R008	RES CF 3K9 5% 0W166	18-CB0392-JNX
R009	RES CF 15K 5% 0W166	18-CB0153-JNX
R010	RES CF 4K7 5% 0W166	18-CB0472-JNX
R020	RES CF 33K 5% 0W166	18-CB0333-JNX
R021	RES CF 15K 5% 0W166	18-CB0153-JNX
R022	RES CF 22K 5% 0W166	18-CB0223-JNX
R023	RES CF 1K 5% 0W166	18-CB0102-JNX
R024	RES CF 47R 5% 0W166	18-CB0470-JNX
R025	RES CF 10K 5% 0W166	18-CB0103-JNX
R026	RES CF 10K 5% 0W166	18-CB0103-JNX
R027	RES CF 22R 5% 0W166	18-CB0220-JNX
R028	RES CF 22R 5% 0W166	18-CB0220-JNX
R030	RES CF 4R7 5% OW25	18-CD0479-JNX
R031	RES CF 1K 5% 0W166	18-CB0102-JNX
R032	RES CF 1K 5% 0W166	18-CB0102-JNX
R033	RES CF 10K 5% 0W166	18-CB0103-JNX
R034	RES CF 100K 5% 0W166	18-CB0104-JNX
R035	RES CF 10K 5% 0W166	18-CB0103-JNX
R036	RES CF 470R 5% 0W166	18-CB0471-JNX
R042	RES CF 470R 5% 0W166	18-CB0471-JNX
R043	RES CF 10K 5% 0W166	18-CB0103-JNX
R044	RES CF 470R 5% 0W166	18-CB0471-JNX
R054	RES CF 10K 5% 0W166	18-CB0103-JNX
R101	RES CF 47K 5% 0W166	18-CB0473-JNX
R102	RES CF 150R 5% 0W166	18-CB0151-JNX
R103	RES CF 470R 5% 0W166	18-CB0471-JNX
R106	RES CF 1K 5% 0W166	18-CB0102-JNX
R107	RES CF 56R 5% 0W166	18-CB0560-JNX
R108	RES CF 150R 5% 0W166	18-CB0151-JNX
R201	RES CF 330R 5% 0W166	18-CB0331-JNX
R202	RES CF 8K2 5% 0W166	18-CB0822-JNX
R203	RES CF 100R 5% 0W166	18-CB0101-JNX
R203A	RES CF 3K9 5% 0W166	18-CB0392-JNX
R204	RES CF 10R 5% 0W166	18-CB0100-JNX
R208	RES CF 470R 5% 0W166	18-CB0471-JNX
R208A	RES CF 22K 5% 0W166	18-CB0223-JNX
R209	RES CF 270R +/-5% 0W5	18-CE0271-JNX
R210	RES CF 100K 5% 0W166	18-CB0104-JNX
R211	RES CF 470R 5% 0W166	18-CB0471-JNX
R212	RES CF 3K3 5% 0W166	18-CB0332-JNX
R213	RES CF 100R 5% 0W166	18-CB0101-JNX
R214	RES CF 330R 5% 0W166	18-CB0331-JNX
R215	RES CF 270R 5% 0W166	18-CB0271-JNX
R216	RES CF 3K3 5% 0W166	18-CB0332-JNX
R217	RES CF 120R 0.5% 0W166	18-CB0121-JNX
R218	RES CF 150R 5% 0W166	18-CB0151-JNX

Main Board (cont.)

Position	Description	Part Number
Resistors (cont.)		
R219	RES CF 47K 5% 0W166	18-CB0473-JNX
R220	RES CF 51K +/-5% 0W166	18-CB0513-JNX
R221	RES CF 22K 5% 0W166	18-CB0223-JNX
R223	RES CF 22K 5% 0W166	18-CB0223-JNX
R224	RES CF 10K 5% 0W166	18-CB0103-JNX
R225	RES CF 33K 5% 0W166	18-CB0333-JNX
R226	RES CF 47K 5% 0W166	18-CB0473-JNX
R227	RES CF 10K 5% 0W166	18-CB0103-JNX
R228	RES CF 150R 5% 0W166	18-CB0151-JNX
R231	RES CF 100R 5% 0W166	18-CB0101-JNX
R232	RES CF 330R 5% 0W166	18-CB0331-JNX
R233	RES CF 1K 5% 0W166	18-CB0102-JNX
R235	RES CF 100K 5% 0W166	18-CB0104-JNX
R236	RES CF 100K 5% 0W166	18-CB0104-JNX
R237	RES CF 1K 5% 0W166	18-CB0102-JNX
R240	RES CF 220K 5% 0W166	18-CB0224-JNX
R241	RES CF 30K 5% 0W166	18-CB0303-JNX
R243	RES CF 270R 5% 0W166	18-CB0271-JNX
R244	RES CF 270R 5% 0W166	18-CB0271-JNX
R245	RES CF 270R 5% 0W166	18-CB0271-JNX
R246	RES CF 10K 5% 0W166	18-CB0103-JNX
R250	RES CF 220R 5% 0W166	18-CB0221-JNX
R253	RES CF 3K3 5% 0W166	18-CB0332-JNX
R256	RES CF 8K2 5% 0W166	18-CB0822-JNX
R301	RES FUS 1R 5% 2W	18-EG0109-JHX
R302	RES CF 3K6 5% 0W166	18-CB0362-JNX
R303	RES CF 3K9 5% 0W166	18-CB0392-JNX
R304	RES CF 1R 5% 0W5	18-CE0109-JNX
R305	RES CF 10K 5% 0W166	18-CB0103-JNX
R306	RES CF 33K 5% 0W166	18-CB0333-JNX
R307	RES CF 820R 5% 0W166	18-CB0821-JNX
R308	RES MF 12K +/-1% 0W166	18-DB0123-FNX
R309	RES M O 1.5R +/-5% 0W5	18-FE0159-JNX
R310	RES MO 120R 5% OW5	18-FE0121-JNX
R311	RES MO 220R 5% 1W	18-FF0221-JGX
R315	RES CF 4K7 5% 0W166	18-CB0472-JNX
R316	RES MO 4K7 5% 0W5	18-FE0472-JNX
R401	RES CF 220R 5% 0W166	18-CB0221-JNX
R402	RES MO 2K4 5% 1W	18-FF0242-JGX
R404	RES CEMENT 3K +/-10% 7W	18-GM0302-KTX
R412	RES CF 2K 5% 0W166	18-CB0202-JNX
R413	RES CF 12K 5% 0W166	18-CB0123-JNX
R414	RES CF 56K 5% 0W166	18-CB0563-JNX
R415	RES MO 3R9 5% 2W	18-FG0399-JHX
R416	RES CF 8K2 5% 0W166	18-CB0822-JNX
R417	RES CF 2K2 5% 0W166	18-CB0222-JNX
R418	RES CF 68K 5% 0W166	18-CB0683-JNX
R419	RES MO 680R 5% 1W	18-FF0681-JGX
R420	RES CF 4K7 5% 0W166	18-CB0472-JNX
R421	RES M O 10K +/-5% 2W	18-FG0103-JHX
R422	RES FUS 1R 5% 2W	18-EG0109-JHX
R423	RES CF 2K2 5% 0W166	18-CB0222-JNX
R425	RES CF 390K 5% 0W166	18-CB0394-JNX
R426	RES CF 100K 5% 0W166	18-CB0104-JNX
R431	RES FUS 1R 5% 2W	18-EG0109-JHX
R432	RES CF 18K 5% 0W166	18-CB0183-JNX
R453	RES CF 1K 5% 0W166	18-CB0102-JNX
R461	RES FUS 1R5 +/-5% 2W	18-EG0159-JHX
R602	RES CF 4K7 5% 0W166	18-CB0472-JNX
R604	RES CF 1K 5% 0W166	18-CB0102-JNX
R607	RES CF 10K 5% 0W166	18-CB0103-JNX
R608	RES CF 330R 5% 0W166	18-CB0331-JNX
R609	RES CF 330R 5% 0W166	18-CB0331-JNX
R610	RES CF 47K 5% 0W166	18-CB0473-JNX
R611	RES CF 1K 5% 0W166	18-CB0102-JNX

Main Board (cont.)

Position	Description	Part Number
Resistors (cont.)		
R612	RES CF 4K7 5% 0W166	18-CB0472-JNX
R613	RES C.F 8.2 OHM +/-5% 0W25	18-CD0829-JNX
R614	RES WIRE ROUND 0.22R 5% 2W	18-GG0228-JHX
R615	RES CF 2K2 5% 0W166	18-CB0222-JNX
R616	RES CF 22K 5% 0W166	18-CB0223-JNX
R617	RES CF 33K 5% 0W166	18-CB0333-JNX
R618	DIODE 1N4148	10-1N4148-ABX
R619	RES CF 100K 5% 0W166	18-CB0104-JNX
R620	RES C.F 8.2 OHM +/-5% 0W25	18-CD0829-JNX
R630	RES CF 22K 5% 0W166	18-CB0223-JNX
R631	RES CF 22K 5% 0W166	18-CB0223-JNX
R632	RES CF 22K 5% 0W166	18-CB0223-JNX
R633	RES CF 22K 5% 0W166	18-CB0223-JNX
R635	RES CF 10K 5% 0W166	18-CB0103-JNX
R804	RES MF 0.1M +/-1% 0W25	18-DD0104-FNX
R804A	RES MF 4.7K 4.7K +/-1% 0W25	18-DD0472-FNX
R805	RES H.VOLT CC 1M 5% 0W5	18-KE0105-JN3
R806	RES CF 4K7 5% 0W166	18-CB0472-JNX
R807	RES CF 3K9 5% 0W166	18-CB0392-JNX
R808	RES CEMENT 22K +/-10% 5W	18-GJ0223-KTX
R809	RES CF 1K 5% 0W166	18-CB0102-JNX
R810	RES WIRE ROUND 0.22R 5% 2W	18-GG0228-JHX
R811	RES CF 470R 5% 0W25	18-CD0471-JNX
R811A	RES CF 22R 5% 0W25	18-CD0220-JNX
R812A	RES H.VOLT CC 8.2M +/-5% 1W	18-KF0825-JH3
R820	RES CF 10K 5% 0W25	18-CD0103-JNX
R831	RES MF 82K +/-1% 0W5	18-DE0823-FNX
R832	RES CF 4.7 OHM 5% OW5	18-CE0479-JNX
R833	RES CF 220R 5% 0W25	18-CD0221-JNX
R834	RES CF 3K3 5% 0W166	18-CB0332-JNX
R835	RES MF 3.9K +/-1% 0W25	18-DD0392-FNX
R835A	RES CF 10K 5% 0W166	18-CB0103-JNX
R836	RES CEMENT 10K +/-10% 5W	18-GJ0103-KTX
R837	RES MO 33K +/-5% 2W	18-FG0333-JHX
R838	RES CF 33K 5% 0W166	18-CB0333-JNX
R839	RES MO 22K 5% 2W	18-FG0223-JHX
R844	RES CF 10K 5% 0W166	18-CB0103-JNX
R901	RES CF 82R 5% 0W166	18-CB0820-JNX
R902	RES CF 82R 5% 0W166	18-CB0820-JNX
R903	RES CF 2K2 5% 0W166	18-CB0222-JNX
R904	RES CF 1K 5% 0W166	18-CB0102-JNX
R905	RES CF 22K 5% 0W166	18-CB0223-JNX
R906	RES CF 1K 5% 0W166	18-CB0102-JNX
R907	RES CF 100K 5% 0W166	18-CB0104-JNX
R908	RES CF 82R 5% 0W166	18-CB0820-JNX
R909	RES CF 2K2 5% 0W166	18-CB0222-JNX
R910	RES CF 1K 5% 0W166	18-CB0102-JNX
R911	RES CF 22K 5% 0W166	18-CB0223-JNX
R912	RES CF 1K 5% 0W166	18-CB0102-JNX
R913	RES CF 22K 5% 0W166	18-CB0223-JNX
R922	RES CF 75R 5% 0W166	18-CB0750-JNX
R923	RES CF 1K 5% 0W166	18-CB0102-JNX
R924	RES CF 1K 5% 0W166	18-CB0102-JNX
R925	RES CF 1K 5% 0W166	18-CB0102-JNX
R926	RES CF 1K 5% 0W166	18-CB0102-JNX
R927	RES CF 47R 5% 0W166	18-CB0470-JNX
R928	RES CF 220R 5% 0W166	18-CB0221-JNX
R929	RES CF 220R 5% 0W166	18-CB0221-JNX
R930	RES CF 100R 5% 0W166	18-CB0101-JNX
R931	RES CF 1K 5% 0W166	18-CB0102-JNX
R932	RES CF 22K 5% 0W166	18-CB0223-JNX
R933	RES CF 15K 5% 0W166	18-CB0153-JNX
R934	RES CF 680R 5% 0W166	18-CB0681-JNX
R935	RES CF 390K 5% 0W166	18-CB0394-JNX
R936	RES CF 68K 5% 0W166	18-CB0683-JNX

Main Board (cont.)

Position	Description	Part Number
Resistors (cont.)		
R937	RES CF 12K 5% 0W166	18-CB0123-JNX
R938	RES CF 22K 5% 0W166	18-CB0223-JNX
R939	RES CF 22K 5% 0W166	18-CB0223-JNX
R940	RES CF 22K 5% 0W166	18-CB0223-JNX
R941	RES CF 22K 5% 0W166	18-CB0223-JNX
R942	RES CF 22K 5% 0W166	18-CB0223-JNX
R943	RES CF 100K 5% 0W166	18-CB0104-JNX
R944	RES CF 1K 5% 0W166	18-CB0102-JNX
R945	RES CF 2K2 5% 0W166	18-CB0222-JNX
R946	RES CF 2K2 5% 0W166	18-CB0222-JNX
R946A	RES CF 2K2 5% 0W166	18-CB0222-JNX
R950	RES CF 1K 5% 0W166	18-CB0102-JNX
R950A	RES CF 1K 5% 0W166	18-CB0102-JNX
R951	RES CF 1K 5% 0W166	18-CB0102-JNX
R951A	RES CF 1K 5% 0W166	18-CB0102-JNX
RT801	PTC 20 OHM	22-PTC200-XX0
RT802	NTC 4.7OHM +/-18%	22-NTC479-XX0
VR829	TRIMMER B5K HORIZ TYPE	20-TR502H-5CX
Transistors		
Q003	TRANS 2SK2541 (N-CHANNEL)	11-SK2541-0BX
Q004	TRANS 2N3904	11-2N3904-0BX
Q007	TRANS 2SC1815Y	11-SC1815-YBX
Q008	TRANS 2SA1015Y	11-SA1015-YBX
Q101	TRANS 2SC3779D (RF AMPL)	11-SC3779-DBX
Q201	TRANS 2SC1815Y	11-SC1815-YBX
Q202	TRANS 2SC1815Y	11-SC1815-YBX
Q203	TRANS 2SC1815Y	11-SC1815-YBX
Q204	TRANS 2SC1815Y	11-SC1815-YBX
Q205	TRANS 2SC1815Y	11-SC1815-YBX
Q210	TRANS 2SK2541 (N-CHANNEL)	11-SK2541-0BX
Q211	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q212	TRANS 2SC1815Y	11-SC1815-YBX
Q215	TRANS 2SA1015Y	11-SA1015-YBX
Q401	TRANS 2SC2482	11-SC2482-0BX
Q411	TRANS. 3DD1556	11-DD1556-0AX
Q412	TRANS 2SA1015Y	11-SA1015-YBX
Q413	TRANS 2SA1015Y	11-SA1015-YBX
Q414	TRANS IRF630MFP	11-630MFP-0AX
Q451	TRANS 2SC1815Y	11-SC1815-YBX
Q601	TRANS 2SA1015Y	11-SA1015-YBX
Q602	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q605	TRANS 2SC1815Y	11-SC1815-YBX
Q630	TRANS 2SC1815Y	11-SC1815-YBX
Q631	TRANS 2SC1815Y	11-SC1815-YBX
Q801	M/C SCREW B 3x10	64-B30100-104
Q801	TRANS 2SK2996	11-SK2996-0AX
Q830	TRANS. 2SC2688L	11-SC2688-LAX
Q831	TRANS 2SC1815Y	11-SC1815-YBX
Q832	TRANS 2SC1815Y	11-SC1815-YBX
Q833	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q834	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q909	TRANS 2SC1815Y	11-SC1815-YBX
Q910	TRANS 2SC1815Y	11-SC1815-YBX
Q911	TRANS 2SC1815Y	11-SC1815-YBX
Q912	TRANS 2SA1015Y	11-SA1015-YBX
Q913	TRANS 2SC1815Y	11-SC1815-YBX
Q914	TRANS 2SC1815Y	11-SC1815-YBX
Q915	TRANS 2SA1015Y	11-SA1015-YBX
Q916	TRANS 2SA1015Y	11-SA1015-YBX
Miscellaneous Electrical		
F801	FUSE 250V/3.15A	50-03150D-1US7
TU101	TUNER UV1355-BK2	07-389VI5-NX4

Main Board (cont.)

Position	Description	Part Number
Miscellaneous Mechanical		
	BRACKET FOR FBT	62-313410-0HA
F801	FUSE HOLDER qty2	66-20516X-0B0
	HEATSINK	67-H27292-1A0
	HEATSINK	67-H30147-0A0
	HEATSINK	67-H35984-2A0
	HEATSINK qty2	67-H27292-3A0
	M/C SCREW P 3x10 qty2	64-P30100-104
	M/C SCREW P 3x8 qty5	64-P30080-104
	MAIN BD BRACKET	62-B159MB-2UN
	NUT M3 qty2	65-Z30050-23M
	S/T SCREW 3MM 8MM BT qty3	63-B30080-BT4
	S/T SCREW W 3MM 10MM AB qty7	63-W30100-AB4
	SCREW ST 3MM 10MM BT qty2	63-B30100-BT4
	SCREW W 3x12AB	63-W30120-AB4
	WASHER FIBRE 3.3x10x0.8MM qty2	54-128700-0X0

Front Control Board

Capacitor		
C070A	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
Connectors		
P001B	HS 5P 2468#24 320TJC3-5Y	46-37033H-05X
P801	PIN BASE *2 TJC1-2A	46-28559W-02X
Diodes		
D1001	LED RED FB205	14-LED05R-XX1
Resistors		
R022A	RES CF 10K 5% 0W166	18-CB0103-JNX
R023A	RES CF 1K5 5% 0W166	18-CB0152-JNX
R024A	RES CF 1K8 5% 0W166	18-CB0182-JNX
R025A	RES CF 2K7 5% 0W166	18-CB0272-JNX
R026A	RES CF 4K3 5% 0W166	18-CB0432-JNX
R027A	RES.CF 6.2K +/-5% 0W166	18-CB0622-JNX
R033A	RES CF 1K 5% 0W166	18-CB0102-JNX
R070A	RES CF 47R 5% 0W166	18-CB0470-JNX
R091	RES CF 22K 5% 0W166	18-CB0223-JNX

Front Control Board (cont.)

Position	Description	Part Number
Switches		
S002	SW. TACT VERT	48-TAC002-XX0
S003	SW. TACT VERT	48-TAC002-XX0
S004	SW. TACT VERT	48-TAC002-XX0
S005	SW. TACT VERT	48-TAC002-XX0
S006	SW. TACT VERT	48-TAC002-XX0
S007	SW. TACT VERT	48-TAC002-XX0
S802	PIN BASE *2 TJC1-2A	46-28559W-02X
SW801	SWITCH POWER	48-POW001-AX0
Transistors		
Q081	TRANS 2SA1015Y	11-SA1015-YBX
Q082	TRANSISTOR PDTC124ES	11-C124ES-0BX
Miscellaneous Electrical		
	POWER CORD 3R/P W/HOUSING	51-KC0245-0CH
IR1001	IR RECEIVER MODULE	11-IRR001-1X0
Miscellaneous Mechanical		
	ADAPTOR SWITCH POWER	62-262660-0HA
	FRONT CTL BD BRACKET	62-367740-0UN
	HS 2P 1617#22 350 TJC1-2Y	46-35049H-02X
	LIGHT BRACKET	62-357320-0HA
	S/T SCREW W 3MM 10MM AB qty3	63-W30100-AB4

Side AV Board

Position	Description	Part Number
	S/T SCREW B 3.0MM 6MM BT qty2	63-B30060-BT2
P902	7P 2468#24/1185#26 550	46-39136H-07X
P951	SOCKET S-W16-J	47-SVI002-XX0
P961	JACK RCA 3PH H=8MM Y/W/R/Sw	47-RCA041-XX0

Accessories

	Operation Manual	72-2559XE-E321A
	Remote Control	06-015W34-A171X

M113 chassis

Tedelex Colour TV
EC29187 74 cm

PARTS LIST

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Side AV Board	p7.
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Boards and Assemblies

Position	Description	Part Number
	Remote Controller	08-HS46F0-M113
	CRT Base Board	EC29187-L
	Main Board	EC29187-O
	Power Switch Board	EC29187-T
	Side AV Board	EC29187-U
	Key Switch Board	EC29187-W

Cabinet Front

	ASSY-CRT GND WIRE & HOUS.	02-GND029-XX0
	BRACKET ABS-KINGFA 606	62-227680-0UA
C1	CAP ELCO 2.2UF +/-20% 50V	25-DFB229-M1X
C2	CAP ELCO 2.2UF +/-20% 50V	25-DFB229-M1X
	CRT 73SX731Y22-DC04 FORTUNE	NC013+AA429
	CRT FIBRE SHEET qty4	54-314740-0X0
	DEGAUSSING COIL 3100MM	36-DEG290-XX1
	FBT BRACKET	62-227680-1UA
	FRONT CABINET	55-B187FC-0CN1A
	HOLDER POWER CORD	62-216340-0UA
P602H	HS 2P22 600/7 F/W TJC3-2Y	46-27580H-02X
P601H	HS 2P24 570/7 F/W S11-02H	46-14026H-02X
P411H	HS 4P A/B 500/13 RBGW	46-26514H-04X
	INLAY SIDE AV	58-2980SI-0UIAI
	LENS	56-B187LE-0HC5Z
	LOGO (TEDELEX)	67-366140-3A0AC
	PAD RUBBER 25MM 7MM qty2	59-130460-00X
	POWER KNOB	56-B187PK-0HA5B
	PUSH BUTTON	56-B187FB-0HA5B
	S/T SCREW 3MM 8MM BT	63-B30080-BT4
	S/T SCREW H 6MM 30MM AB qty4	63-H60300-AB4
	S/T SCREW W 3MM 10MM AB qty9	63-W30100-AB4
	S/T SCREW W 3MM 14MM HS qty8	63-W30140-HS4
	S/T SCREW W 3MM 8MM AB qty2	63-W30080-AB4
	SPACER CRT MOUNTING 2MM	54-205140-000
	Speaker 51MM 8 OHM 5W qty 2	42-G5008D-XX1
	Speaker 58x126MM 8OHM 8W qty 2	42-61308F-XX0
	SPEAKER RUBBER CUSHION	59-312160-000
	SPRING	67-X24970-0E0
	SPRING CRT qty2	67-X21679-0E0
	WASHER 7.5MM 20MM 2MM qty4	65-A75200-20E

Cabinet Rear

	ASSY - REAR COVER	08-B187XE-RCN
	PAD RUBBER 25MM 7MM qty2	59-130460-00X
	PLATE MODEL NO	58-B187MP-0UI1B
	S/T SCREW B 4MM 25MM AB qty10	63-B40250-AB3
	S/T SCREW F 3x10 BT qty2	63-F30100-BT3

CRT Base Board

Capacitors

C501	CAP CER 390PF +/-5% 50V	26-EBP391-JCX
C502	CAP CER 390PF +/-5% 50V	26-EBP391-JCX
C503	CAP CER 470PF +/-5% 50V	26-EBP471-JCX
C504	CAP ELEC 10UF +/-20% 250V	25-BLA100-M1X
C505	CAP CER 1000PF +/-10% 2KV	26-AMK102-KRX
C506	CAP ELCO 470UF 20% 16V	25-BCB471-M1X
C508	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C509	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX

Connectors

P501	PIN BASE *1 TJC1-1A	46-10967W-01X
P502	HS 4P24 460 F/W TJC3-4Y/SCN-4	46-30615H-04X
P503	HS 5P 2468#24 450 TJC3-5Y	46-37030H-05X
S501	CRT SOCKET	47-CRT004-XX0

CRT Base Board (cont)

Diodes

D501	DIODE 1N4148	10-1N4148-ABX
D502	DIODE 1N4148	10-1N4148-ABX

Filters, Inductors

L501	DIODE 1N4148	10-1N4148-ABX
L502	COIL CHOKE 22UH +/-10%	34-R220K2-1BX
L505	BEAD FERRITE HF70	35-237250-00X
L506	BEAD FERRITE HF70	35-237250-00X

Resistors

R501	RES CF 560R 5% 0W166	18-CB0561-JNX
R502	RES CF 680R 5% 0W166	18-CB0681-JNX
R503	RES CF 680R 5% 0W166	18-CB0681-JNX
R505	RES CF 560R 5% 0W166	18-CB0561-JNX
R506	RES CF 680R 5% 0W166	18-CB0681-JNX
R508	RES CF 680R 5% 0W166	18-CB0681-JNX
R509	RES CF 680R 5% 0W166	18-CB0681-JNX
R510	RES CF 560R 5% 0W166	18-CB0561-JNX
R511	RES CF 680R 5% 0W166	18-CB0681-JNX
R513	RES CF 680R 5% 0W166	18-CB0681-JNX
R514	RES CF 2K7 5% 0W166	18-CB0272-JNX
R515	RES CF 1K 5% 0W166	18-CB0102-JNX
R516	RES MO 18K 5% 2W	18-FG0183-JHX
R517	RES MO 18K 5% 2W	18-FG0183-JHX
R518	RES MO 18K 5% 2W	18-FG0183-JHX
R519	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R520	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R521	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R522	RES CF 680R 5% 0W166	18-CB0681-JNX

Transistors

Q501	TRANS 2SC4544	11-SC4544-0AX
Q502	TRANS 2SC1815Y	11-SC1815-YBX
Q503	TRANS 2SC4544	11-SC4544-0AX
Q504	TRANS 2SC1815Y	11-SC1815-YBX
Q505	TRANS 2SC4544	11-SC4544-0AX
Q506	TRANS 2SC1815Y	11-SC1815-YBX
Q507	TRANSISTOR 2SA562TM-0	11-A562TM-0BX

Main Board

C002	CAP CER 1500PF +/-10% 50V	26-EBP152-KBX
C003	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C004	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C005	CAP PE 0.22UF +/-5% 63V	27-PBC224-J0X
C006	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C007	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C008	CAP CER 27PF +/-5% 50V	26-EBP270-JCX
C009	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C020	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C021	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C022	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C023	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C024	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C027	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C028	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C029	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C030	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C031	CAP CER 39PF +/-5% 50V	26-EBP390-JCX
C032	CAP CER 39PF +/-5% 50V	26-EBP390-JCX
C033	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C034	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C035	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C042	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C043	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C101	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X

Main Board (cont)

Position	Description	Part Number
Capacitors (cont.)		
C102	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C105	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C106	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C107	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C108	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C109	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C210	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C211	CAP MPE 0.47UF 5% 50V	27-MBC474-J0X
C213	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C214	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C216	CAP ELCO 0.22UF +/-20% 50V	25-BFB228-M1X
C217	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C218	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C219	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C220	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C221	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C222	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C223	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C224	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C225	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C226	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C227	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C228	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C229	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C230	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C231	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C232	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C233	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C234	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C235	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C236	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C237	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C238	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C239	CAP CER 470PF +/-5% 50V	26-EBP471-JCX
C240	CAP CER 100PF +/-5% 50V	26-EBP101-JCX
C241	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C241A	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C242	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C243	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C244	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C245	CAP ELCO 1000UF 20% 16V	25-BCA102-M1X
C246	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C247	CAP PE 0.0082UF +/-5% 50V	27-PBC822-J0X
C248	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C250	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C251	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C252	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C253	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C301	CAP ELCO 470UF 35V +/-20%	25-BEA471-M1X
C302	CAP ELCO 220UF +/-20% 35V	25-BEA221-M1X
C303	CAP CER 10PF +/-5% 50V	26-EBP100-JCX
C304	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C305	CAP PE 0.22UF +/-5% 63V	27-PBC224-J0X
C306	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C307	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C308	CAP ELCO 2200UF 20% 35V	25-BEG222-M1X
C309	CAP MPE 0.039UF +/-5% 63V	27-MBC393-J0X
C311	CAP MPE 2700PF +/-5% 100V	27-MCB272-J0X
C401	CAP ELCO 4.7UF +/-20% 160V	25-BJB479-M1X
C402	CAP CERCO B 3N3F 10% 500V	26-AIC332-KBX
C403	CAP CERCO 390PF 10% 500V	26-AIC391-KBX
C411	CAP M. PP 0.0033UF +/-5% 1.6KV	27-ALQ332-J0X
C412	CAP MPP 0.01UF +/-5% 1.6KV	27-ALQ103-J0X
C413	CAP PP 0U022F 5% 400V	27-RHQ223-J0X
C414	CAP MPP 0.0027UF +/-5% 1.6KV	27-ALQ272-J0X

Main Board (cont)

Position	Description	Part Number
Capacitors (cont.)		
C415	CAP ELEC 4.7UF +/-20% 50V	25-264610-M1X
C416	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C417	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C418	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C419	CAP M.PP 0.47UF +/-5% 250V	27-AGQ474-JSX
C421	CAP ELCO 10UF +/-20% 200V	25-BKA100-M1X
C422	CAP ELCO 100UF 20% 160V	25-BJG101-M1X
C431	CAP CERCO B 220PF 10% 500V	26-AIC221-KBX
C432	CAP ELCO 1000UF 20% 35V	25-BEA102-M1X
C441	CAP CERCO B 220PF 10% 500V	26-AIC221-KBX
C442	CAP ELCO 10UF +/-20% 250V	25-BLF100-M11
C451	CAP PP 0.056UF +/-5% 400V	27-RHQ563-J0X
C601	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C602	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C603	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C604	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C605	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C607	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C608	CAP MPE 0.33UF 5% 63V	27-MBC334-J0X
C610	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C611	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C612	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C613	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C614	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C615	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C616	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C617	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C618	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C619	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C620	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C622	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C623	CAP ELCO 1000UF 25V +/-20%	25-BDA102-M1X
C624	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C625	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C626	CAP M P E 0.01UF +/-5% 63V	27-MBC103-J0X
C627	CAP MPE 0.47UF 5% 50V	27-MBC474-J0X
C628	CAP M P E 0.01UF +/-5% 63V	27-MBC103-J0X
C629	CAP MPE 0.47UF 5% 50V	27-MBC474-J0X
C630	CAP ELCO 330UF +/-20% 16V	25-BCB331-M1X
C631	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C632	CAP ELCO 10UF +/-20% 25V	25-BDB100-M1X
C633	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C643	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C645	CAP MPE 0.0047UF +/-5% 63V	27-MBC472-J0X
C646	CAP MPE 0.0047UF +/-5% 63V	27-MBC472-J0X
C647	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C650	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C651	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C652	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C653	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C654	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C655	CAP M P E 0.047UF +/5% 63V	27-MBC473-J0X
C656	CAP MPE 0.033UF 5% 63V	27-MBC333-J0X
C657	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C801	CAP M PP 0.22UF 20% CB 250VAC	27-AQT224-MVH
C802	CAP M PP 0.22UF 20% CB 250VAC	27-AQT224-MVH
C802A	CAP METAL PE 0.1UF 10% 400V	27-MHM104-K0X
C803	CAP CERCO 470PF +/-10% 400VAC	26-APK471-KBX
C804	CAP CERCO 470PF +/-10% 400VAC	26-APK471-KBX
C804A	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C805	CAP CERCO B 0U01F 10% 500V	26-AIM103-KBX
C806	CAP ELCO 220UF +/-20% 400V	25-BMJ221-M1X
C807	CAP CERCO 4700PF +80-20 250VAC	26-AQK472-ZFX
C808	CAP CERCO 4700PF +80-20 250VAC	26-AQK472-ZFX
C809	CAP PP 4700PF +/-5% 630V	27-RJK472-J0X

Main Board (cont)

Position	Description	Part Number
Capacitors (cont.)		
C812	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C813	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C814	CAP CER 100PF +/-5% 50V	26-EBP101-JCX
C816	CAP CER 2200PF +/-20% 400VAC	26-APK222-MEX
C817	CAP CER 330PF +/-5% 2KV	26-AMK331-JZX
C818	CAP CER 1500PF +/-10% 2KV	26-AMK152-KRX
C820	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C830	CAP CER 220PF +-/10% 250V	26-AGK221-KRX
C831	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C832	CAP ELCO 1000UF 20% 35V	25-BEA102-M1X
C833	CAP CER 220PF +/-10% 1KV	26-AKK221-KRX
C834	CAP CERCO B 0U01F 10% 500V	26-AIM103-KBX
C835	CAP ELCO 220UF 20% 160V	25-BJG221-M1X
C840	CAP ELCO 100UF 20% 35V	25-BEB101-M1X
C841	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C842	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C843	CAP ELCO 470UF 20% 16V	25-BCB471-M1X
C844	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C845	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C846	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C849	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C863	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C864	CAP CERCO 0.1UF 80% 50V	26-ABC104-ZFX
C901	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C902	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C903	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C904	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C905	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C906	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C910	CAP ELCO 220UF 20% 16V	25-BCB221-M1X
C911	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C912	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C913	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C914	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C916	CAP CER CH 33PF +/-5% 50V	26-EBP330-JCX
C917	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C918	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C919	CAP CER 180PF +/-5% 50V	26-EBP181-JCX
C920	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C921	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C922	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C923	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C930	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C930A	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C931A	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
Connectors		
P001	PIN BASE *5 TJC3-5A	46-33079W-05X
P002	PIN BASE *3 TJC3-3A	46-33079W-03X
P005A	PIN BASE *2 TJC3-2A	46-33079W-02X
P201	PIN BASE *5 TJC3-5A	46-33079W-05X
P411	PIN BASE *4 TJCI-4A	46-20598W-04X
P421	PIN BASE *4 TJC3-4A	46-33079W-04X
P601	PIN BASE *2 S11-02W	46-12866W-02X
P602	PIN BASE *2 TJC3-2A	46-33079W-02X
P901	RCA JACK 3PV, Y/W/R/SW	47-RCA023-XX1
P904	RCA JACK 3PV, Y/W/R/SW	47-RCA023-XX1
P921	PIN BASE *7 TJC3-7A	46-33079W-07X
S801	PIN BASE *3 VH-3A	46-35063W-03X
S803	PIN BASE *2 TJC2-2A	46-10962W-02X
Diodes		
D001	DIODE ZENER 5V1 5% 0W5	10-79C5V1-DBX
D201	DIODE 1N4148	10-1N4148-ABX
D202	DIODE 1N4148	10-1N4148-ABX
D203	DIODE 1N4148	10-1N4148-ABX
D204	DIODE 1N4148	10-1N4148-ABX

Main Board (cont)

Position	Description	Part Number
Diodes (cont.)		
D205	DIODE 1N4148	10-1N4148-ABX
D301	DIODE 1N4001 (RECTIFIER)	10-1N4001-EBX
D303	DIODE ZENER 8V2 5% 0W5	10-79C8V2-DBX
D411	DIODE BY228 (FAST RECTIFIER)	10-0BY228-F0X
D412	DIODE FR104	10-0FR104-FBX
D421	DIODE FR104	10-0FR104-FBX
D431	DIODE FR104	10-0FR104-FBX
D441	DIODE FR104	10-0FR104-FBX
D601	DIODE 1N4148	10-1N4148-ABX
D602	DIODE 1N4148	10-1N4148-ABX
D603	DIODE 1N4148	10-1N4148-ABX
D605	DIODE ZENER 3V9 5% 0W5	10-79C3V9-DBX
D802	DIODE FR104	10-0FR104-FBX
D804	DIODE 1N4148	10-1N4148-ABX
D805	DIODE 1N4148	10-1N4148-ABX
D806	D1ODE HER108	10-HER108-FBX
D830	DIODE RU3YX(FAST RECTIFIER)	10-0RU3YX-F0X
D831	DIODE RU3AM (FAST RECOVERY)	10-0RU3AM-F0X
D833	DIODE FR104	10-0FR104-FBX
D834	DIODE ZENER UPC 574J	10-PC574J-DJX
D836	DIODE 1N4001 (RECTIFIER)	10-1N4001-EBX
D838	DIODE ZENER 12V 1/2W 5%	10-79C12V-DBX
D840	DIODE 500mW 5.6HSB	10-HS5V6B-DBX
D841	DIODE ZENER 8V2 5% 0W5	10-79C8V2-DBX
DB801	DIODE D3SB60	10-D3SB60-H7X
J616	DIODE 1N4148	10-1N4148-ABX
Filters, Inductors, Resonators, Transformers		
J617	COIL PL 10UH 5%	34-R100J2-0EX
L002	COIL PL 10UH 5%	34-R100J2-0EX
L101	COIL PL 47UH 5%	34-R470J2-0EX
L102	COIL CHOKE 1UH 10%	34-A109K0-1IX
L201	COIL PL 22UH 5%	34-R220J2-0EX
L202	COIL PL 22UH 5%	34-R220J2-0EX
L203	COIL PL 8U2H 5%	34-R829J2-0EX
L204	COIL PL 8U2H 5%	34-R829J2-0EX
L206	COIL PL 22UH 5%	34-R220J2-0EX
L207	COIL PL 27UH +/-5%	34-R270J2-0EX
L208	COIL PL 10UH 5%	34-R100J2-0EX
L413	COIL CHOKE 600UH	36-WID601-XX1
L414	COIL LINEARITY 18UH	36-LIN180-XX1
L801	COIL CHOKE 100UH 10%	34-R101K2-1BX
L802	COIL CHOKE 100UH 10%	34-R101K2-1BX
L810	BEAD FERRITE HF70	35-237250-00X
L811	BEAD FERRITE HF70	35-237250-00X
L812	BEAD FERRITE HF70	35-237250-00X
L813	BEAD FERRITE HF70	35-237250-00X
L814	FERRITE BEAD BF60	35-139730-00X
L815	FERRITE BEAD BF60	35-139730-00X
L816	FERRITE BEAD	35-LB1005-0IX
T401	TRANSF. HOR DRIVE	36-HDR001-AX1
T461	FLYBACK BSC29-0165	37-BSC290-1650X
T801	LINE FILTER	36-LIF005-XX0
T803	TRANSFO CONV BCK	36-TRF046-XX1
X001	CRYSTAL 8.0MHZ	45-0SC8M0-0Y0
X201	CER TRAP 6.5MHZ	45-TRA6M5-0Y0
X202	CER TRAP 6.0MHZ	45-TRA6M0-0Y0
X203	CER TRAP 5.5MHZ	45-TRA5M5-0Y0
Z101	SAW FILTER K2966M	45-SAW296-6M00G
Integrated Circuits		
IC001	IC M2408 EEPROM 8K	13-00M24C-08P
IC101	IC TCL-A20V02-T0	13-A20V02-TOP
IC301	HEATSINK	67-H30179-7A0
IC301	IC TDA8172	13-0TDA81-72S
IC601	IC NJW1136L	13-NJW113-6LP

Main Board (cont)

Position	Description	Part Number
Integrated Circuits (cont.)		
IC602	HEATSINK	67-H34423-4A0
IC602	IC TDA8944J	13-TDA894-4JS
IC801	IC MC44608P40	13-44608P-40P
IC802	PHOTOCOUPLER PC123Y92	13-PC123Y-92P
IC803	IC MC7809CT	13-MC7809-CTS
IC804	IC L7805C-VAP	13-L7805C-VAP
IC901	IC CD4052BE	13-CD4052-BEP
IC902	IC CD4052BE	13-CD4052-BEP
Resistors		
J205	RES CF 10K 5% 0W166	18-CB0103-JNX
J219	RES CF 3K3 5% 0W166	18-CB0332-JNX
R001	RES CF 2K7 5% 0W166	18-CB0272-JNX
R002	RES CF 2K7 5% 0W166	18-CB0272-JNX
R003	RES CF 1K 5% 0W166	18-CB0102-JNX
R004	RES CF 1K 5% 0W166	18-CB0102-JNX
R005	RES CF 22K 5% 0W166	18-CB0223-JNX
R006	RES CF 10K 5% 0W166	18-CB0103-JNX
R007	RES CF 3K9 5% 0W166	18-CB0392-JNX
R008	RES CF 3K9 5% 0W166	18-CB0392-JNX
R009	RES CF 15K 5% 0W166	18-CB0153-JNX
R010	RES CF 4K7 5% 0W166	18-CB0472-JNX
R020	RES CF 33K 5% 0W166	18-CB0333-JNX
R021	RES CF 15K 5% 0W166	18-CB0153-JNX
R022	RES CF 22K 5% 0W166	18-CB0223-JNX
R023	RES CF 1K 5% 0W166	18-CB0102-JNX
R024	RES CF 47R 5% 0W166	18-CB0470-JNX
R025	RES CF 10K 5% 0W166	18-CB0103-JNX
R026	RES CF 10K 5% 0W166	18-CB0103-JNX
R027	RES CF 22R 5% 0W166	18-CB0220-JNX
R028	RES CF 22R 5% 0W166	18-CB0220-JNX
R030	RES CF 4R7 5% OW25	18-CD0479-JNX
R031	RES CF 1K 5% 0W166	18-CB0102-JNX
R032	RES CF 1K 5% 0W166	18-CB0102-JNX
R033	RES CF 10K 5% 0W166	18-CB0103-JNX
R034	RES CF 100K 5% 0W166	18-CB0104-JNX
R035	RES CF 10K 5% 0W166	18-CB0103-JNX
R036	RES CF 470R 5% 0W166	18-CB0471-JNX
R037	RES CF 10K 5% 0W166	18-CB0103-JNX
R042	RES CF 470R 5% 0W166	18-CB0471-JNX
R043	RES CF 10K 5% 0W166	18-CB0103-JNX
R044	RES CF 470R 5% 0W166	18-CB0471-JNX
R054	RES CF 10K 5% 0W166	18-CB0103-JNX
R101	RES CF 47K 5% 0W166	18-CB0473-JNX
R102	RES CF 150R 5% 0W166	18-CB0151-JNX
R103	RES CF 470R 5% 0W166	18-CB0471-JNX
R106	RES CF 1K 5% 0W166	18-CB0102-JNX
R107	RES CF 56R 5% 0W166	18-CB0560-JNX
R108	RES CF 150R 5% 0W166	18-CB0151-JNX
R201	RES CF 330R 5% 0W166	18-CB0331-JNX
R202	RES CF 8K2 5% 0W166	18-CB0822-JNX
R203	RES CF 100R 5% 0W166	18-CB0101-JNX
R203A	RES CF 3K9 5% 0W166	18-CB0392-JNX
R204	RES CF 10R 5% 0W166	18-CB0100-JNX
R208	RES CF 470R 5% 0W166	18-CB0471-JNX
R208A	RES CF 22K 5% 0W166	18-CB0223-JNX
R209	RES CF 270R +/-5% 0W5	18-CE0271-JNX
R210	RES CF 100K 5% 0W166	18-CB0104-JNX
R211	RES CF 470R 5% 0W166	18-CB0471-JNX
R212	RES CF 3K3 5% 0W166	18-CB0332-JNX
R213	RES CF 100R 5% 0W166	18-CB0101-JNX
R214	RES CF 330R 5% 0W166	18-CB0331-JNX
R215	RES CF 270R 5% 0W166	18-CB0271-JNX
R216	RES CF 680R 5% 0W166	18-CB0681-JNX
R217	RES CF 120R 0.5% 0W166	18-CB0121-JNX

Main Board (cont)

Position	Description	Part Number
Resistors (cont.)		
R218	RES CF 150R 5% 0W166	18-CB0151-JNX
R219	RES CF 47K 5% 0W166	18-CB0473-JNX
R220	RES C F 51K +/-5% 0W166	18-CB0513-JNX
R221	RES CF 22K 5% 0W166	18-CB0223-JNX
R223	RES CF 22K 5% 0W166	18-CB0223-JNX
R224	RES CF 10K 5% 0W166	18-CB0103-JNX
R225	RES CF 33K 5% 0W166	18-CB0333-JNX
R226	RES CF 47K 5% 0W166	18-CB0473-JNX
R227	RES CF 10K 5% 0W166	18-CB0103-JNX
R228	RES CF 150R 5% 0W166	18-CB0151-JNX
R231	RES CF 100R 5% 0W166	18-CB0101-JNX
R232	RES CF 330R 5% 0W166	18-CB0331-JNX
R233	RES CF 1K 5% 0W166	18-CB0102-JNX
R235	RES CF 100K 5% 0W166	18-CB0104-JNX
R236	RES CF 100K 5% 0W166	18-CB0104-JNX
R237	RES CF 1K 5% 0W166	18-CB0102-JNX
R240	RES CF 220K 5% 0W166	18-CB0224-JNX
R241	RES CF 30K 5% 0W166	18-CB0303-JNX
R243	RES CF 270R 5% 0W166	18-CB0271-JNX
R244	RES CF 270R 5% 0W166	18-CB0271-JNX
R245	RES CF 270R 5% 0W166	18-CB0271-JNX
R246	RES CF 10K 5% 0W166	18-CB0103-JNX
R250	RES CF 220R 5% 0W166	18-CB0221-JNX
R253	RES CF 3K3 5% 0W166	18-CB0332-JNX
R256	RES CF 8K2 5% 0W166	18-CB0822-JNX
R301	RES FUS 1R 5% 2W	18-EG0109-JHX
R302	RES CF 3K6 5% 0W166	18-CB0362-JNX
R303	RES CF 3K9 5% 0W166	18-CB0392-JNX
R304	RES CF 1R 5% 0W5	18-CE0109-JNX
R305	RES CF 10K 5% 0W166	18-CB0103-JNX
R306	RES CF 33K 5% 0W166	18-CB0333-JNX
R307	RES CF 2K2 5% 0W166	18-CB0222-JNX
R308	RES MF 12K +/-1% 0W166	18-DB0123-FNX
R309	RES MO 1R5 5% 2W	18-FG0159-JHX
R310	RES MO 120R 5% OW5	18-FE0121-JNX
R311	RES MO 220R 5% 1W	18-FF0221-JGX
R315	RES CF 4K7 5% 0W166	18-CB0472-JNX
R316	RES MO 4K7 5% 0W5	18-FE0472-JNX
R401	RES CF 220R 5% 0W166	18-CB0221-JNX
R402	RES MO 2K4 5% 1W	18-FF0242-JGX
R404	RES CEMENT 3K +/-10% 7W	18-GM0302-KTX
R412	RES CF 2K 5% 0W166	18-CB0202-JNX
R413	RES CF 12K 5% 0W166	18-CB0123-JNX
R414	RES CF 56K 5% 0W166	18-CB0563-JNX
R415	RES MO 3R9 5% 2W	18-FG0399-JHX
R416	RES.CF 9.1K +/-5% OW166	18-CB0912-JNX
R417	RES CF 2K2 5% 0W166	18-CB0222-JNX
R418	RES CF 68K 5% 0W166	18-CB0683-JNX
R419	RES MO 680R 5% 1W	18-FF0681-JGX
R420	RES CF 4K7 5% 0W166	18-CB0472-JNX
R421	RES M O 10K +/-5% 2W	18-FG0103-JHX
R422	RES FUS 1R 5% 2W	18-EG0109-JHX
R423	RES CF 2K2 5% 0W166	18-CB0222-JNX
R425	RES CF 390K 5% 0W166	18-CB0394-JNX
R426	RES CF 100K 5% 0W166	18-CB0104-JNX
R431	RES FUS 1R 5% 2W	18-EG0109-JHX
R432	RES CF 18K 5% 0W166	18-CB0183-JNX
R453	RES CF 1K 5% 0W166	18-CB0102-JNX
R461	RES FUS 1R5 +/-5% 2W	18-EG0159-JHX
R602	RES CF 4K7 5% 0W166	18-CB0472-JNX
R604	RES CF 1K 5% 0W166	18-CB0102-JNX
R607	RES CF 10K 5% 0W166	18-CB0103-JNX
R608	RES CF 330R 5% 0W166	18-CB0331-JNX
R609	RES CF 330R 5% 0W166	18-CB0331-JNX
R610	RES CF 47K 5% 0W166	18-CB0473-JNX

Main Board (cont)

Position	Description	Part Number
Resistors (cont.)		
R611	RES CF 1K 5% 0W166	18-CB0102-JNX
R612	RES CF 4K7 5% 0W166	18-CB0472-JNX
R613	RES C.F 8.2 OHM +/-5% 0W25	18-CD0829-JNX
R614	RES WIRE ROUND 0.22R +/-5% 2W	18-RG0228-JHX
R615	RES CF 2K2 5% 0W166	18-CB0222-JNX
R616	RES CF 22K 5% 0W166	18-CB0223-JNX
R617	RES CF 33K 5% 0W166	18-CB0333-JNX
R618	DIODE 1N4148	10-1N4148-ABX
R619	RES CF 100K 5% 0W166	18-CB0104-JNX
R620	RES C.F 8.2 OHM +/-5% 0W25	18-CD0829-JNX
R630	RES CF 22K 5% 0W166	18-CB0223-JNX
R631	RES CF 22K 5% 0W166	18-CB0223-JNX
R632	RES CF 22K 5% 0W166	18-CB0223-JNX
R633	RES CF 22K 5% 0W166	18-CB0223-JNX
R635	RES CF 10K 5% 0W166	18-CB0103-JNX
R804	RES MF 0.1M +/-1% 0W25	18-DD0104-FNX
R804A	RES MF 4.7K 4.7K +/-1% 0W25	18-DD0472-FNX
R805	RES H.VOLT CC 1M 5% 0W5	18-KE0105-JN3
R806	RES CF 4K7 5% 0W166	18-CB0472-JNX
R807	RES CF 3K9 5% 0W166	18-CB0392-JNX
R808	RES CEMENT 22K +/-10% 5W	18-GJ0223-KTX
R809	RES CF 1K 5% 0W166	18-CB0102-JNX
R810	RES WIRE ROUND 0.22R +/-5% 2W	18-RG0228-JHX
R811	RES CF 470R 5% 0W25	18-CD0471-JNX
R811A	RES CF 22R 5% 0W25	18-CD0220-JNX
R812A	RES H.VOLT CC 8.2M +/-5% 1W	18-KF0825-JH3
R820	RES CF 10K 5% 0W25	18-CD0103-JNX
R831	RES MF 82K +/-1% 0W5	18-DE0823-FNX
R832	RES CF 4.7 OHM 5% OW5	18-CE0479-JNX
R833	RES CF 220R 5% 0W25	18-CD0221-JNX
R834	RES CF 3K3 5% 0W166	18-CB0332-JNX
R835	RES MF 3.9K +/-1% 0W25	18-DD0392-FNX
R835A	RES CF 10K 5% 0W166	18-CB0103-JNX
R836	RES CEMENT 10K +/-10% 5W	18-GJ0103-KTX
R837	RES MO 33K +/-5% 2W	18-FG0333-JHX
R838	RES CF 33K 5% 0W166	18-CB0333-JNX
R839	RES MO 22K 5% 2W	18-FG0223-JHX
R844	RES CF 10K 5% 0W166	18-CB0103-JNX
R901	RES CF 82R 5% 0W166	18-CB0820-JNX
R902	RES CF 82R 5% 0W166	18-CB0820-JNX
R903	RES CF 2K2 5% 0W166	18-CB0222-JNX
R904	RES CF 1K 5% 0W166	18-CB0102-JNX
R905	RES CF 22K 5% 0W166	18-CB0223-JNX
R906	RES CF 1K 5% 0W166	18-CB0102-JNX
R907	RES CF 100K 5% 0W166	18-CB0104-JNX
R908	RES CF 82R 5% 0W166	18-CB0820-JNX
R909	RES CF 2K2 5% 0W166	18-CB0222-JNX
R910	RES CF 1K 5% 0W166	18-CB0102-JNX
R911	RES CF 22K 5% 0W166	18-CB0223-JNX
R912	RES CF 1K 5% 0W166	18-CB0102-JNX
R913	RES CF 22K 5% 0W166	18-CB0223-JNX
R922	RES CF 75R 5% 0W166	18-CB0750-JNX
R923	RES CF 1K 5% 0W166	18-CB0102-JNX
R924	RES CF 1K 5% 0W166	18-CB0102-JNX
R925	RES CF 1K 5% 0W166	18-CB0102-JNX
R926	RES CF 1K 5% 0W166	18-CB0102-JNX
R927	RES CF 47R 5% 0W166	18-CB0470-JNX
R928	RES CF 220R 5% 0W166	18-CB0221-JNX
R929	RES CF 220R 5% 0W166	18-CB0221-JNX
R930	RES CF 100R 5% 0W166	18-CB0101-JNX
R931	RES CF 1K 5% 0W166	18-CB0102-JNX
R932	RES CF 22K 5% 0W166	18-CB0223-JNX
R933	RES CF 15K 5% 0W166	18-CB0153-JNX
R934	RES CF 680R 5% 0W166	18-CB0681-JNX
R935	RES CF 390K 5% 0W166	18-CB0394-JNX

Main Board (cont)

Position	Description	Part Number
Resistors (cont.)		
R936	RES CF 68K 5% 0W166	18-CB0683-JNX
R937	RES CF 12K 5% 0W166	18-CB0123-JNX
R938	RES CF 22K 5% 0W166	18-CB0223-JNX
R939	RES CF 22K 5% 0W166	18-CB0223-JNX
R940	RES CF 22K 5% 0W166	18-CB0223-JNX
R941	RES CF 22K 5% 0W166	18-CB0223-JNX
R942	RES CF 22K 5% 0W166	18-CB0223-JNX
R943	RES CF 100K 5% 0W166	18-CB0104-JNX
R944	RES CF 1K 5% 0W166	18-CB0102-JNX
R945	RES CF 2K2 5% 0W166	18-CB0222-JNX
R946	RES CF 2K2 5% 0W166	18-CB0222-JNX
R946A	RES CF 2K2 5% 0W166	18-CB0222-JNX
R950	RES CF 1K 5% 0W166	18-CB0102-JNX
R950A	RES CF 1K 5% 0W166	18-CB0102-JNX
R951	RES CF 1K 5% 0W166	18-CB0102-JNX
R951A	RES CF 1K 5% 0W166	18-CB0102-JNX
RT801	PTC 20 OHM	22-PTC200-XX0
RT802	NTC 4.7OHM +/-18%	22-NTC479-XX0
VR829	TRIMMER B5K HORIZ TYPE	20-TR502H-5CX
Transistors		
Q003	TRANS 2SK2541 (N-CHANNEL)	11-SK2541-0BX
Q004	TRANS 2N3904	11-2N3904-0BX
Q007	TRANS 2SC1815Y	11-SC1815-YBX
Q008	TRANS 2SA1015Y	11-SA1015-YBX
Q101	TRANS 2SC3779D (RF AMPL)	11-SC3779-DBX
Q201	TRANS 2SC1815Y	11-SC1815-YBX
Q202	TRANS 2SC1815Y	11-SC1815-YBX
Q203	TRANS 2SC1815Y	11-SC1815-YBX
Q204	TRANS 2SC1815Y	11-SC1815-YBX
Q205	TRANS 2SC1815Y	11-SC1815-YBX
Q210	TRANS 2SK2541 (N-CHANNEL)	11-SK2541-0BX
Q211	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q212	TRANS 2SC1815Y	11-SC1815-YBX
Q215	TRANS 2SA1015Y	11-SA1015-YBX
Q401	TRANS 2SC2482	11-SC2482-0BX
Q411	TRANS. 3DD1556	11-DD1556-0AX
Q412	TRANS 2SA1015Y	11-SA1015-YBX
Q413	TRANS 2SA1015Y	11-SA1015-YBX
Q414	TRANS IRF630MFP	11-630MFP-0AX
Q451	TRANS 2SC1815Y	11-SC1815-YBX
Q601	TRANS 2SA1015Y	11-SA1015-YBX
Q602	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q605	TRANS 2SC1815Y	11-SC1815-YBX
Q630	TRANS 2SC1815Y	11-SC1815-YBX
Q631	TRANS 2SC1815Y	11-SC1815-YBX
Q801	TRANS 2SK2996	11-SK2996-0AX
Q830	TRANS. 2SC2688L	11-SC2688-LAX
Q831	TRANS 2SC1815Y	11-SC1815-YBX
Q832	TRANS 2SC1815Y	11-SC1815-YBX
Q833	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q834	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q909	TRANS 2SC1815Y	11-SC1815-YBX
Q910	TRANS 2SC1815Y	11-SC1815-YBX
Q911	TRANS 2SC1815Y	11-SC1815-YBX
Q912	TRANS 2SA1015Y	11-SA1015-YBX
Q913	TRANS 2SC1815Y	11-SC1815-YBX
Q914	TRANS 2SC1815Y	11-SC1815-YBX
Q915	TRANS 2SA1015Y	11-SA1015-YBX
Q916	TRANS 2SA1015Y	11-SA1015-YBX
Miscellaneous Electrical		
F801	FUSE 250V/3.15A	50-03150D-1US7
TU101	TUNER UV1355-BK2	07-389VI5-NX4

Main Board (cont)

Position	Description	Part Number
Miscellaneous Mechanical		
	BRACKET ABS-KINGFA 606	62-227680-0UA
F801	FUSE HOLDER qty2	66-20516X-0B0
	HEATSINK	67-H27292-1A0
	HEATSINK	67-H30147-0A0
	HEATSINK	67-H35984-2A0
	HEATSINK qty2	67-H27292-3A0
	M/C SCREW B 3x10	64-B30100-104
	M/C SCREW P 3x10 qty2	64-P30100-104
	M/C SCREW P 3x8 qty5	64-P30080-104
	MAIN BD BRACKET	62-B187MB-0UN
	NUT M3 qty2	65-Z30050-23M
	S/T SCREW W 3MM 10MM AB qty8	63-W30100-AB4
	SCREW ST 3MM 10MM BT qty2	63-B30100-BT4
	WASHER FIBRE 3.3x10x0.8MM qty2	54-128700-0X0

Power Switch Board

Capacitor		
C080	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
Connectors		
P005	HS 5P24 380 TJC3-5Y	46-35038H-05X
P801	PIN BASE *2 TJC1-2A	46-28559W-02X
S801	PIN BASE *2 TJC1-2A	46-28559W-02X
Diode		
D080	LED RED FB205	14-LED05R-XX1
Transistors		
Q081	TRANS 2SA1015Y	11-SA1015-YBX
Q082	TRANSISTOR PDTC124ES	11-C124ES-0BX
Resistors		
R089	RES CF 47R 5% 0W166	18-CB0470-JNX
R090	RES CF 1K 5% 0W166	18-CB0102-JNX
R091	RES CF 22K 5% 0W166	18-CB0223-JNX
Switch		
SW801	SWITCH POWER	48-POW001-AX0
Miscellaneous Electrical		
IR001	IR RECEIVER MODULE	11-IRR001-1X0
Miscellaneous Mechanical		
	HS 2P 1617#22 300 TJC-1	46-39318H-02X
	LED HOLDER	62-379350-0HA
	POWER CORD 3R/P W/HOUSING	51-KC0245-0CH
	POWER SWITCH ADAPTOR	62-265160-0HA
	S/T SCREW S 3MM 10MM AB qty2	63-S30100-AB4
	WASHER 3.5x15.0x1.2MM qty2	65-A35150-12E

Side AV Board

Position	Description	Part Number
P902	7P 2468#24/1185#26 550	46-39136H-07X
P951	JACK RCA 3PH H=8MM Y/W/R/SW	47-RCA041-XX0
P961	SOCKET S-W16-J	47-SVI002-XX0

Key Switch Board

Resistors		
R082	RES CF 1K5 5% 0W166	18-CB0152-JNX
R083	RES CF 1K8 5% 0W166	18-CB0182-JNX
R084	RES CF 2K7 5% 0W166	18-CB0272-JNX
R085	RES CF 4K3 5% 0W166	18-CB0432-JNX
R086	RES.CF 6.2K +/-5% 0W166	18-CB0622-JNX
Switches		
S001	TACT SWITCH	48-TAC001-XX0
S002	TACT SWITCH	48-TAC001-XX0
S003	TACT SWITCH	48-TAC001-XX0
S003A	HS 2P22 250 TJC3-2Y	46-33216H-02X
S004	TACT SWITCH	48-TAC001-XX0
S005	TACT SWITCH	48-TAC001-XX0
S006	TACT SWITCH	48-TAC001-XX0

Accessories

	OPERATION MANUAL	72-B187XE-E321A
	Remote Controller	08-HS46F0-M113

M113 chassis

TEDELEX Colour TV
EC2959 74 cm

PARTS LIST

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Boards and Assemblies

Position	Description	Part Number
	Main Board	EC2959-O
	CRT Board	EC2959-L
	Front Control Board	EC2959-T
	Side AV Board	EC2959-U
	Remote Controller	06-015W34-A171X

Cabinet Front

	ASSY-CRT GND WIRE & HOUS.	02-GND029-XX0
	CRT 73SX733Y22 DC01 FORTUNE	44-29SFLS-FD1A
	CRT FIBRE SHEET	54-314740-0X0
	DEGAUSSING COIL	36-294960-017
	FRONT CABINET	55-B159FC-0CN1F
	HOLDER CABLE	62-227680-0UA
	HOLDER POWER CORD	62-216340-0UA
	INLAY SIDE AV	58-B159SI-0UI1A
	LENS	56-B159LE-0HCAA
	LOGO (TEDELEX)	67-366140-3A0AC
	PAD RUBBER 25MM 7MM qty2	59-130460-00X
	POWER KNOB	56-B159PK-0HA5B
	PUSH BUTTON	56-B159FB-0HA5B
	S/T SCREW H 6MM 30MM BT qty4	63-H60300-BT4
	S/T SCREW W 3MM 10MM AB qty4	63-W30100-AB4
	S/T SCREW W 3MM 14MM HS qty8	63-W30140-HS4
	SPACER CRT MOUNTING 2MM qty4	54-205140-000
	SPACER CRT MOUNTING 3mm qty2	54-205130-000
	SPEAKER 8 OHM 8W qty2	42-61308F-XX3
	SPEAKER GRILLE (LEFT)	56-B159SL-0HN5B
	SPEAKER GRILLE (RIGHT)	56-B159SR-0HN5B
	SPEAKER RUBBER CUSHION qty8	59-312160-000
	SPONGE 50X20MM qty2	54-310140-000
	SPRING CRT qty2	67-X21679-0E0
	SPRING POWER KNOB	67-X24283-0E0
	WASHER 6MM 20MM 2MM qty4	65-A60200-20E
P411H	HS 4P A/B 500/13 RBGW	46-26514H-04X
P601H	HS 2P24 570/7 F/W S11-02H	46-14026H-02X
P602H	HS 2P22 600/7 F/W TJC3-2Y	46-27580H-02X

Cabinet Rear

	INLAY REAR AV	58-B159RI-5UI1A
	PAD RUBBER 25MM 7MM qty2	59-130460-00X
	PLATE MODEL NO.	58-2959MP-0UI1D
	REAR CABINET	55-B159RC-0EN5K
	S/T SCREW B 4MM 25MM AB qty10	63-B40250-AB3
	S/T SCREW F 3x10 BT qty2	63-F30100-BT3

CRT Base Board

Capacitors

C501	CAP CER 390PF +/-5% 50V	26-EBP391-JCX
C502	CAP CER 390PF +/-5% 50V	26-EBP391-JCX
C503	CAP CER 470PF +/-5% 50V	26-EBP471-JCX
C504	CAP ELEC 10UF +/-20% 250V	25-BLA100-M1X
C505	CAP CER 1000PF +/-10% 2KV	26-AMK102-KRX
C506	CAP ELCO 470UF 20% 16V	25-BCB471-M1X
C508	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C509	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX

Connectors

P501	PIN BASE *1 TJC1-1A	46-10967W-01X
P502	HS 4P24 460 F/W TJC3-4Y/SCN-4	46-30615H-04X
P503	HS 5P 2468#24 450 TJC3-5Y	46-37030H-05X
S501	CRT SOCKET	47-CRT004-XX0

CRT Base Board (cont.)

Diodes

Position	Description	Part Number
D501	DIODE 1N4148	10-1N4148-ABX
D502	DIODE 1N4148	10-1N4148-ABX

Filters, Inductors

L501	DIODE 1N4148	10-1N4148-ABX
L503	COIL CHOKE 22UH +/-10%	34-R220K2-1BX
L505	BEAD FERRITE HF70	35-237250-00X
L506	BEAD FERRITE HF70	35-237250-00X

Transistors

Q501	TRANS 2SC4544	11-SC4544-0AX
Q502	TRANS 2SC1815Y	11-SC1815-YBX
Q503	TRANS 2SC4544	11-SC4544-0AX
Q504	TRANS 2SC1815Y	11-SC1815-YBX
Q505	TRANS 2SC4544	11-SC4544-0AX
Q506	TRANS 2SC1815Y	11-SC1815-YBX
Q507	TRANSISTOR 2SA562TM-0	11-A562TM-0BX

Resistors

R501	RES CF 560R 5% 0W166	18-CB0561-JNX
R502	RES CF 680R 5% 0W166	18-CB0681-JNX
R503	RES CF 680R 5% 0W166	18-CB0681-JNX
R505	RES CF 560R 5% 0W166	18-CB0561-JNX
R506	RES CF 680R 5% 0W166	18-CB0681-JNX
R508	RES CF 680R 5% 0W166	18-CB0681-JNX
R509	RES CF 680R 5% 0W166	18-CB0681-JNX
R510	RES CF 560R 5% 0W166	18-CB0561-JNX
R511	RES CF 680R 5% 0W166	18-CB0681-JNX
R513	RES CF 680R 5% 0W166	18-CB0681-JNX
R514	RES CF 2K7 5% 0W166	18-CB0272-JNX
R515	RES CF 1K 5% 0W166	18-CB0102-JNX
R516	RES MO 18K 5% 2W	18-FG0183-JHX
R517	RES MO 18K 5% 2W	18-FG0183-JHX
R518	RES MO 18K 5% 2W	18-FG0183-JHX
R519	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R520	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R521	RES M O 2K7 +/-5% 0W5	18-FE0272-JNX
R522	RES CF 680R 5% 0W166	18-CB0681-JNX

Main Board

Capacitors

C002	CAP CER 1500PF +/-10% 50V	26-EBP152-KBX
C003	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C004	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C005	CAP PE 0.22UF +/-5% 63V	27-PBC224-J0X
C006	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C007	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C008	CAP CER 27PF +/-5% 50V	26-EBP270-JCX
C009	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C020	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C021	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C022	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C023	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C024	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C027	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C028	CAP ELCO 100UF 20% 16V	25-BCB101-M1X

Main Board (cont.)

Position	Description	Part Number
Capacitors (cont.)		
C029	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C030	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C031	CAP CER 39PF +/-5% 50V	26-EBP390-JCX
C032	CAP CER 39PF +/-5% 50V	26-EBP390-JCX
C033	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C034	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C035	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C042	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C043	CAP CER 330PF +/-5% 50V	26-EBP331-JCX
C101	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C102	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C105	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C106	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C107	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C108	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C109	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C210	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C211	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C213	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C214	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C216	CAP ELCO 0.22UF +/-20% 50V	25-BFB228-M1X
C217	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C218	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C219	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C220	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C221	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C222	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C223	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C224	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C225	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C226	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C227	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C228	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C229	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C230	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C231	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C232	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C233	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C234	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C235	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C236	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C237	CAP ELCO 100UF +/-20% 50V	25-BFB101-M1X
C238	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C239	CAP CER 470PF +/-5% 50V	26-EBP471-JCX
C240	CAP CER 100PF +/-5% 50V	26-EBP101-JCX
C241	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C241A	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C242	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C243	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C244	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C245	CAP ELCO 1000UF 20% 16V	25-BCA102-M1X
C246	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C247	CAP PE 0.0082UF +/-5% 50V	27-PBC822-J0X
C248	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C250	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C251	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C252	CAP CER 22PF +/-5% 50V	26-EBP220-JCX
C253	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C301	CAP ELCO 470UF 35V +/-20%	25-BEA471-M1X
C302	CAP ELCO 220UF +/-20% 35V	25-BEA221-M1X

Main Board (cont.)

Position	Description	Part Number
Capacitors (cont.)		
C303	CAP CER 10PF +/-5% 50V	26-EBP100-JCX
C304	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C305	CAP PE 0.22UF +/-5% 63V	27-PBC224-J0X
C306	CAP CER 2200PF +/-10% 50V	26-EBP222-KBX
C307	CAP ELCO 1UF 20% 50V	25-BFB109-M1X
C308	CAP ELCO 2200UF 20% 35V	25-BEG222-M1X
C309	CAP MPE 0.039UF +/-5% 63V	27-MBC393-J0X
C311	CAP MPE 2700PF +/-5% 100V	27-MCB272-J0X
C401	CAP ELCO 4.7UF +/-20% 160V	25-BJB479-M1X
C402	CAP CERCO B 3N3F 10% 500V	26-AIC332-KBX
C403	CAP CERCO 390PF 10% 500V	26-AIC391-KBX
C411	CAP MPP 3900PF +/-5% 1.6KV	27-ALQ392-J0X
C412	CAP M PP 7600PF +/-5% 1.6KV	27-ALQ762-J0X
C413	CAP PP 0U022F 5% 400V	27-RHQ223-J0X
C414	CAP MPP 3900PF +/-5% 1.6KV	27-ALQ392-J0X
C415	CAP ELEC 4.7UF +/-20% 50V	25-264610-M1X
C416	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C417	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C418	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C419	CAP M PP 0.39UF +/-5% 250VAC	27-AGQ394-JSX
C421	CAP ELCO 10UF +/-20% 200V	25-BKA100-M1X
C422	CAP ELCO 100UF 20% 160V	25-BJG101-M1X
C431	CAP CERCO B 220PF 10% 500V	26-AIC221-KBX
C432	CAP ELCO 1000UF 20% 35V	25-BEA102-M1X
C441	CAP CERCO B 220PF 10% 500V	26-AIC221-KBX
C442	CAP ELCO 10UF +/-20% 250V	25-BLF100-M11
C451	CAP PP 0.056UF +/-5% 400V	27-RHQ563-J0X
C601	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C602	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C603	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C604	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C605	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C607	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C608	CAP MPE 0.33UF 5% 63V	27-MBC334-J0X
C610	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C611	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C612	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C613	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C614	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C615	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C616	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C617	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C618	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C619	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C620	CAP ELCO 4.7UF +/-20% 50V	25-BFB479-M1X
C622	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C623	CAP ELCO 1000UF 25V +/-20%	25-BDA102-M1X
C624	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C625	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C626	CAP M P E 0.01UF +/-5% 63V	27-MBC103-J0X
C627	CAP MPE 0.47UF 5% 50V	27-MBC474-J0X
C628	CAP M P E 0.01UF +/-5% 63V	27-MBC103-J0X
C629	CAP MPE 0.47UF 5% 50V	27-MBC474-J0X
C630	CAP ELCO 330UF +/-20% 16V	25-BCB331-M1X
C631	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C632	CAP ELCO 10UF +/-20% 25V	25-BDB100-M1X
C633	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C635	RES CF 10K 5% 0W166	18-CB0103-JNX
C643	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C645	CAP MPE 0.0047UF +/-5% 63V	27-MBC472-J0X

Main Board (cont.)

Position	Description	Part Number
Capacitors (cont.)		
C646	CAP MPE 0.0047UF +/-5% 63V	27-MBC472-J0X
C647	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C650	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C651	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C652	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C653	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C654	CAP MPE 0.0022UF +/-5% 63V	27-MBC222-J0X
C655	CAP M P E 0.047UF +/5% 63V	27-MBC473-J0X
C656	CAP MPE 0.033UF 5% 63V	27-MBC333-J0X
C657	CAP ELCO 2U2F 20% 50V	25-BFB229-M1X
C801	CAP M PP 0.22UF 20% CB 250VAC	27-AQT224-MVH
C802	CAP M PP 0.22UF 20% CB 250VAC	27-AQT224-MVH
C802A	CAP METAL PE 0.1UF 10% 400V	27-MHM104-K0X
C803	CAP CERCO 470PF +/-10% 400VAC	26-APK471-KBX
C804	CAP CERCO 470PF +/-10% 400VAC	26-APK471-KBX
C804A	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C805	CAP CERCO B 0U01F 10% 500V	26-AIM103-KBX
C806	CAP ELCO 220UF +/-20% 400V	25-BMJ221-M1X
C807	CAP CERCO 4700PF +80-20 250VAC	26-AQK472-ZFX
C808	CAP CERCO 4700PF +80-20 250VAC	26-AQK472-ZFX
C809	CAP PP 4700PF +/-5% 630V	27-RJK472-J0X
C812	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C813	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C814	CAP CER 100PF +/-5% 50V	26-EBP101-JCX
C816	CAP CER 2200PF +/-20% 400VAC	26-APK222-MEX
C817	CAP CER 330PF +/-5% 2KV	26-AMK331-JZX
C818	CAP CER 1500PF +/-10% 2KV	26-AMK152-KRX
C820	CAP MPE 0.1UF +/-5% 63V	27-MBC104-J0X
C830	CAP CER 220PF +-/10% 250V	26-AGK221-KRX
C831	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C832	CAP ELCO 1000UF 20% 35V	25-BEA102-M1X
C833	CAP CER 220PF +/-5% 2KV	26-AMK221-JZX
C834	CAP CERCO B 0U01F 10% 500V	26-AIM103-KBX
C835	CAP ELCO 220UF 20% 160V	25-BJG221-M1X
C840	CAP ELCO 100UF 20% 35V	25-BEB101-M1X
C841	CAP CER 220PF +/-5% 50V	26-EBP221-JCX
C842	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C843	CAP ELCO 470UF 20% 16V	25-BCB471-M1X
C844	CAP CER 1000PF +/-10% 50V	26-EBP102-KBX
C845	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C846	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C849	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C863	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C864	CAP CER 0.1UF +80-20 50V	26-EBP104-ZFX
C901	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C902	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C903	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C904	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
C905	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C906	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C910	CAP ELCO 220UF 20% 16V	25-BCB221-M1X
C911	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C912	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C913	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C914	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C916	CAP CER CH 33PF +/-5% 50V	26-EBP330-JCX
C917	CAP ELCO 10UF 20% 16V	25-BCB100-M1X
C918	CAP ELCO 0U47F 20% 50V	25-BFB478-M1X
C919	CAP CER 180PF +/-5% 50V	26-EBP181-JCX
C920	CAP ELCO 47UF 20% 16V	25-BCB470-M1X

Main Board (cont.)

Position	Description	Part Number
Capacitors (cont.)		
C921	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C922	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C923	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
C930	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C930A	CAP ELCO 100UF 20% 16V	25-BCB101-M1X
C931A	CAP CER 0.01UF +/-20% 50V	26-EBP103-ZFX
Connectors		
P001	PIN BASE *5 TJC3-5A	46-33079W-05X
P002	PIN BASE *3 TJC3-3A	46-33079W-03X
P201	PIN BASE *5 TJC3-5A	46-33079W-05X
P411	PIN BASE *4 TJCI-4A	46-20598W-04X
P421	PIN BASE *4 TJC3-4A	46-33079W-04X
P601	PIN BASE *2 S11-02W	46-12866W-02X
P602	PIN BASE *2 TJC3-2A	46-33079W-02X
P901	RCA JACK 3PV YEL ,WHT, RED/SW	47-RCA023-XX1
P904	RCA JACK 3PV YEL ,WHT, RED/SW	47-RCA023-XX1
P921	PIN BASE *7 TJC3-7A	46-33079W-07X
S801	PIN BASE *2 TJC1-2A	46-28559W-02X
S803	PIN BASE *2 TJC2-2A	46-10962W-02X
Diodes		
D001	DIODE ZENER 5V1 5% 0W5	10-79C5V1-DBX
D201	DIODE 1N4148	10-1N4148-ABX
D202	DIODE 1N4148	10-1N4148-ABX
D203	DIODE 1N4148	10-1N4148-ABX
D204	DIODE 1N4148	10-1N4148-ABX
D205	DIODE 1N4148	10-1N4148-ABX
D301	DIODE 1N4001 (RECTIFIER)	10-1N4001-EBX
D303	DIODE ZENER 8V2 5% 0W5	10-79C8V2-DBX
D411	DIODE BY228 (FAST RECTIFIER)	10-0BY228-F0X
D412	DIODE FR104	10-0FR104-FBX
D421	DIODE FR104	10-0FR104-FBX
D431	DIODE FR104	10-0FR104-FBX
D441	DIODE FR104	10-0FR104-FBX
D601	DIODE 1N4148	10-1N4148-ABX
D602	DIODE 1N4148	10-1N4148-ABX
D603	DIODE 1N4148	10-1N4148-ABX
D605	DIODE ZENER 3V9 5% 0W5	10-79C3V9-DBX
D606	DIODE 1N4148	10-1N4148-ABX
D802	DIODE FR104	10-0FR104-FBX
D804	DIODE 1N4148	10-1N4148-ABX
D805	DIODE 1N4148	10-1N4148-ABX
D806	D1ODE HER108	10-HER108-FBX
D830	DIODE TRU3YX	10-TRU3YX-F0X
D831	DIODE TRU3AM	10-TRU3AM-F0X
D833	DIODE FR104	10-0FR104-FBX
D834	DIODE ZENER UPC 574J	10-PC574J-DJX
D836	DIODE 1N4001 (RECTIFIER)	10-1N4001-EBX
D838	DIODE ZENER 12V 1/2W 5%	10-79C12V-DBX
D840	DIODE ZENER 5V6 5% 0W5	10-79C5V6-DBX
D841	DIODE ZENER 8V2 5% 0W5	10-79C8V2-DBX
DB801	DIODE T3SB60	10-T3SB60-H7X
Filters, Inductors, Resonators, Transformers		
J617	COIL PL 10UH 5%	34-R100J2-0EX
L002	COIL PL 10UH 5%	34-R100J2-0EX
L101	COIL PL 47UH 5%	34-R470J2-0EX
L102	COIL CHOKE 1UH 10%	34-A109K0-1IX
L201	COIL PL 22UH 5%	34-R220J2-0EX

Main Board (cont.)

Position	Description	Part Number
Filters, Inductors, Resonators, Transformers (cont.)		
L202	COIL PL 22UH 5%	34-R220J2-0EX
L203	COIL PL 8U2H 5%	34-R829J2-0EX
L204	COIL PL 8U2H 5%	34-R829J2-0EX
L206	COIL PL 22UH 5%	34-R220J2-0EX
L207	COIL PL 27UH +/-5%	34-R270J2-0EX
L208	COIL PL 10UH 5%	34-R100J2-0EX
L413	COIL CHOKE 600UH	36-WID601-XX1
L414	LINEARITY COIL	36-LIN210-XX1
L801	COIL CHOKE 100UH 10%	34-R101K2-1BX
L802	COIL CHOKE 100UH 10%	34-R101K2-1BX
L814	FERRITE BEAD BF60	35-139730-00X
L815	FERRITE BEAD BF60	35-139730-00X
L816	FERRITE BEAD	35-LB1005-0IX
T401	TRANSF. HOR DRIVE	36-HDR001-AX1
T461	FLYBACK BSC29-0165	37-BSC290-1650X
T801	LINE FILTER	36-LIF005-XX0
T803	TRANSFO CONV BCK	36-TRF046-XX1
X001	CRYSTAL 8.0MHZ	45-0SC8M0-0Y0
X202	CER TRAP 6.0MHZ	45-TRA6M0-0Y0
X203	CER TRAP 5.5MHZ	45-TRA5M5-0Y0
Z101	SAW FILTER K2966M	45-SAW296-6M00G
Integrated Circuits		
IC001	IC M2408 EEPROM 8K	13-00M24C-08P
IC101	IC TCL-A20V02-T0	13-A20V02-TOP
IC301	IC TDA8172	13-0TDA81-72S
IC601	IC NJW1136L	13-NJW113-6LP
IC602	IC TDA8944J	13-TDA894-4JS
IC801	IC MC44608P40	13-44608P-40P
IC802	PHOTOCOUPLER PC123Y92	13-PC123Y-92P
IC803	IC MC7809CT	13-MC7809-CTS
IC804	IC L7805C-VAP	13-L7805C-VAP
IC901	IC 4052	13-000040-52P
IC902	IC 4052	13-000040-52P
Resistors		
J205	RES CF 10K 5% 0W166	18-CB0103-JNX
J219	RES CF 3K3 5% 0W166	18-CB0332-JNX
R001	RES CF 2K7 5% 0W166	18-CB0272-JNX
R002	RES CF 2K7 5% 0W166	18-CB0272-JNX
R003	RES CF 1K 5% 0W166	18-CB0102-JNX
R004	RES CF 1K 5% 0W166	18-CB0102-JNX
R005	RES CF 22K 5% 0W166	18-CB0223-JNX
R006	RES CF 10K 5% 0W166	18-CB0103-JNX
R007	RES CF 3K9 5% 0W166	18-CB0392-JNX
R008	RES CF 3K9 5% 0W166	18-CB0392-JNX
R009	RES CF 15K 5% 0W166	18-CB0153-JNX
R010	RES CF 4K7 5% 0W166	18-CB0472-JNX
R020	RES CF 33K 5% 0W166	18-CB0333-JNX
R021	RES CF 15K 5% 0W166	18-CB0153-JNX
R022	RES CF 22K 5% 0W166	18-CB0223-JNX
R023	RES CF 1K 5% 0W166	18-CB0102-JNX
R024	RES CF 47R 5% 0W166	18-CB0470-JNX
R025	RES CF 10K 5% 0W166	18-CB0103-JNX
R026	RES CF 10K 5% 0W166	18-CB0103-JNX
R027	RES CF 22R 5% 0W166	18-CB0220-JNX
R028	RES CF 22R 5% 0W166	18-CB0220-JNX
R030	RES CF 4R7 5% OW25	18-CD0479-JNX
R031	RES CF 1K 5% 0W166	18-CB0102-JNX
R032	RES CF 1K 5% 0W166	18-CB0102-JNX
R033	RES CF 10K 5% 0W166	18-CB0103-JNX

Main Board (cont.)

Position	Description	Part Number
Resistors (cont.)		
R034	RES CF 100K 5% 0W166	18-CB0104-JNX
R035	RES CF 10K 5% 0W166	18-CB0103-JNX
R036	RES CF 470R 5% 0W166	18-CB0471-JNX
R042	RES CF 470R 5% 0W166	18-CB0471-JNX
R043	RES CF 10K 5% 0W166	18-CB0103-JNX
R044	RES CF 470R 5% 0W166	18-CB0471-JNX
R054	RES CF 10K 5% 0W166	18-CB0103-JNX
R101	RES CF 47K 5% 0W166	18-CB0473-JNX
R102	RES CF 150R 5% 0W166	18-CB0151-JNX
R103	RES CF 470R 5% 0W166	18-CB0471-JNX
R106	RES CF 1K 5% 0W166	18-CB0102-JNX
R107	RES CF 56R 5% 0W166	18-CB0560-JNX
R108	RES CF 150R 5% 0W166	18-CB0151-JNX
R201	RES CF 330R 5% 0W166	18-CB0331-JNX
R202	RES CF 8K2 5% 0W166	18-CB0822-JNX
R203	RES CF 100R 5% 0W166	18-CB0101-JNX
R203A	RES CF 3K9 5% 0W166	18-CB0392-JNX
R204	RES CF 10R 5% 0W166	18-CB0100-JNX
R208	RES CF 470R 5% 0W166	18-CB0471-JNX
R208A	RES CF 22K 5% 0W166	18-CB0223-JNX
R209	RES CF 270R +/-5% 0W5	18-CE0271-JNX
R210	RES CF 100K 5% 0W166	18-CB0104-JNX
R211	RES CF 470R 5% 0W166	18-CB0471-JNX
R212	RES CF 3K3 5% 0W166	18-CB0332-JNX
R213	RES CF 100R 5% 0W166	18-CB0101-JNX
R214	RES CF 330R 5% 0W166	18-CB0331-JNX
R215	RES CF 270R 5% 0W166	18-CB0271-JNX
R216	RES CF 3K3 5% 0W166	18-CB0332-JNX
R217	RES CF 120R 0.5% 0W166	18-CB0121-JNX
R218	RES CF 150R 5% 0W166	18-CB0151-JNX
R219	RES CF 47K 5% 0W166	18-CB0473-JNX
R220	RES C F 51K +/-5% 0W166	18-CB0513-JNX
R221	RES CF 22K 5% 0W166	18-CB0223-JNX
R223	RES CF 22K 5% 0W166	18-CB0223-JNX
R224	RES CF 10K 5% 0W166	18-CB0103-JNX
R225	RES CF 33K 5% 0W166	18-CB0333-JNX
R226	RES CF 47K 5% 0W166	18-CB0473-JNX
R227	RES CF 10K 5% 0W166	18-CB0103-JNX
R228	RES CF 150R 5% 0W166	18-CB0151-JNX
R231	RES CF 100R 5% 0W166	18-CB0101-JNX
R232	RES CF 330R 5% 0W166	18-CB0331-JNX
R233	RES CF 1K 5% 0W166	18-CB0102-JNX
R235	RES CF 100K 5% 0W166	18-CB0104-JNX
R236	RES CF 100K 5% 0W166	18-CB0104-JNX
R237	RES CF 1K 5% 0W166	18-CB0102-JNX
R240	RES CF 220K 5% 0W166	18-CB0224-JNX
R241	RES CF 30K 5% 0W166	18-CB0303-JNX
R243	RES CF 270R 5% 0W166	18-CB0271-JNX
R244	RES CF 270R 5% 0W166	18-CB0271-JNX
R245	RES CF 270R 5% 0W166	18-CB0271-JNX
R246	RES CF 10K 5% 0W166	18-CB0103-JNX
R250	RES CF 220R 5% 0W166	18-CB0221-JNX
R253	RES CF 3K3 5% 0W166	18-CB0332-JNX
R256	RES CF 8K2 5% 0W166	18-CB0822-JNX
R301	RES FUS 1R 5% 2W	18-EG0109-JHX
R302	RES CF 3K6 5% 0W166	18-CB0362-JNX
R303	RES CF 3K9 5% 0W166	18-CB0392-JNX
R304	RES CF 1R 5% 0W5	18-CE0109-JNX
R305	RES CF 10K 5% 0W166	18-CB0103-JNX
R306	RES CF 33K 5% 0W166	18-CB0333-JNX

Main Board (cont.)

Position	Description	Part Number
Resistors (cont.)		
R307	RES CF 2K2 5% 0W166	18-CB0222-JNX
R308	RES MF 12K +/-1% 0W166	18-DB0123-FNX
R309	RES MO 1R5 5% 2W	18-FG0159-JHX
R310	RES MO 120R 5% OW5	18-FE0121-JNX
R311	RES MO 220R 5% 1W	18-FF0221-JGX
R315	RES CF 4K7 5% 0W166	18-CB0472-JNX
R316	RES MO 4K7 5% 0W5	18-FE0472-JNX
R401	RES CF 220R 5% 0W166	18-CB0221-JNX
R402	RES MO 2K4 5% 1W	18-FF0242-JGX
R404	RES CEMENT 3K +/-10% 7W	18-GM0302-KTX
R412	RES CF 2K 5% 0W166	18-CB0202-JNX
R413	RES CF 12K 5% 0W166	18-CB0123-JNX
R414	RES CF 56K 5% 0W166	18-CB0563-JNX
R415	RES MO 3R9 5% 2W	18-FG0399-JHX
R416	RES CF 4K7 5% 0W166	18-CB0472-JNX
R417	RES CF 2K2 5% 0W166	18-CB0222-JNX
R418	RES CF 68K 5% 0W166	18-CB0683-JNX
R419	RES MO 680R 5% 1W	18-FF0681-JGX
R420	RES CF 4K7 5% 0W166	18-CB0472-JNX
R421	RES M O 10K +/-5% 2W	18-FG0103-JHX
R422	RES FUS 1R 5% 2W	18-EG0109-JHX
R423	RES CF 2K2 5% 0W166	18-CB0222-JNX
R425	RES CF 390K 5% 0W166	18-CB0394-JNX
R426	RES CF 100K 5% 0W166	18-CB0104-JNX
R431	RES FUS 1R 5% 2W	18-EG0109-JHX
R432	RES CF 18K 5% 0W166	18-CB0183-JNX
R453	RES CF 1K 5% 0W166	18-CB0102-JNX
R461	RES FUS 1.R8 +/-5% 2W	18-EG0189-JHX
R602	RES CF 4K7 5% 0W166	18-CB0472-JNX
R604	RES CF 1K 5% 0W166	18-CB0102-JNX
R607	RES CF 10K 5% 0W166	18-CB0103-JNX
R608	RES CF 330R 5% 0W166	18-CB0331-JNX
R609	RES CF 330R 5% 0W166	18-CB0331-JNX
R610	RES CF 47K 5% 0W166	18-CB0473-JNX
R611	RES CF 1K 5% 0W166	18-CB0102-JNX
R612	RES CF 4K7 5% 0W166	18-CB0472-JNX
R613	RES C.F 8.2 OHM +/-5% 0W25	18-CD0829-JNX
R614	RES WIRE ROUND 0.22R 5% 2W	18-GG0228-JHX
R615	RES CF 2K2 5% 0W166	18-CB0222-JNX
R616	RES CF 22K 5% 0W166	18-CB0223-JNX
R617	RES CF 33K 5% 0W166	18-CB0333-JNX
R618	DIODE 1N4148	10-1N4148-ABX
R619	RES CF 100K 5% 0W166	18-CB0104-JNX
R620	RES C.F 8.2 OHM +/-5% 0W25	18-CD0829-JNX
R630	RES CF 22K 5% 0W166	18-CB0223-JNX
R631	RES CF 22K 5% 0W166	18-CB0223-JNX
R632	RES CF 22K 5% 0W166	18-CB0223-JNX
R633	RES CF 22K 5% 0W166	18-CB0223-JNX
R804	RES MF 0.1M +/-1% 0W25	18-DD0104-FNX
R804A	RES MF 4.7K 4.7K +/-1% 0W25	18-DD0472-FNX
R805	RES H.VOLT CC 1M 5% 0W5	18-KE0105-JN3
R806	RES CF 4K7 5% 0W166	18-CB0472-JNX
R807	RES CF 3K9 5% 0W166	18-CB0392-JNX
R808	RES CEMENT 22K +/-10% 5W	18-GJ0223-KTX
R809	RES CF 1K 5% 0W166	18-CB0102-JNX
R810	RES WIRE ROUND 0.22R 5% 2W	18-GG0228-JHX
R811	RES CF 470R 5% 0W25	18-CD0471-JNX
R811A	RES CF 22R 5% 0W25	18-CD0220-JNX
R812A	RES H.VOLT CC 8.2M +/-5% 1W	18-KF0825-JH3
R820	RES CF 10K 5% 0W25	18-CD0103-JNX

Main Board (cont.)

Position	Description	Part Number
Resistors (cont.)		
R831	RES MF 82K +/-1% 0W5	18-DE0823-FNX
R832	RES CF 4.7 OHM 5% OW5	18-CE0479-JNX
R833	RES CF 220R 5% 0W25	18-CD0221-JNX
R834	RES CF 3K3 5% 0W166	18-CB0332-JNX
R835	RES MF 3.9K +/-1% 0W25	18-DD0392-FNX
R835A	RES CF 10K 5% 0W166	18-CB0103-JNX
R836	RES CEMENT 10K +/-10% 5W	18-GJ0103-KTX
R837	RES MO 33K +/-5% 2W	18-FG0333-JHX
R838	RES CF 33K 5% 0W166	18-CB0333-JNX
R839	RES MO 22K 5% 2W	18-FG0223-JHX
R844	RES CF 10K 5% 0W166	18-CB0103-JNX
R901	RES CF 82R 5% 0W166	18-CB0820-JNX
R902	RES CF 82R 5% 0W166	18-CB0820-JNX
R903	RES CF 2K2 5% 0W166	18-CB0222-JNX
R904	RES CF 1K 5% 0W166	18-CB0102-JNX
R905	RES CF 22K 5% 0W166	18-CB0223-JNX
R906	RES CF 1K 5% 0W166	18-CB0102-JNX
R907	RES CF 100K 5% 0W166	18-CB0104-JNX
R908	RES CF 82R 5% 0W166	18-CB0820-JNX
R909	RES CF 2K2 5% 0W166	18-CB0222-JNX
R910	RES CF 1K 5% 0W166	18-CB0102-JNX
R911	RES CF 22K 5% 0W166	18-CB0223-JNX
R912	RES CF 1K 5% 0W166	18-CB0102-JNX
R913	RES CF 22K 5% 0W166	18-CB0223-JNX
R922	RES CF 75R 5% 0W166	18-CB0750-JNX
R923	RES CF 1K 5% 0W166	18-CB0102-JNX
R924	RES CF 1K 5% 0W166	18-CB0102-JNX
R925	RES CF 1K 5% 0W166	18-CB0102-JNX
R926	RES CF 1K 5% 0W166	18-CB0102-JNX
R927	RES CF 47R 5% 0W166	18-CB0470-JNX
R928	RES CF 220R 5% 0W166	18-CB0221-JNX
R929	RES CF 220R 5% 0W166	18-CB0221-JNX
R930	RES CF 100R 5% 0W166	18-CB0101-JNX
R931	RES CF 1K 5% 0W166	18-CB0102-JNX
R932	RES CF 22K 5% 0W166	18-CB0223-JNX
R933	RES CF 15K 5% 0W166	18-CB0153-JNX
R934	RES CF 680R 5% 0W166	18-CB0681-JNX
R935	RES CF 390K 5% 0W166	18-CB0394-JNX
R936	RES CF 68K 5% 0W166	18-CB0683-JNX
R937	RES CF 12K 5% 0W166	18-CB0123-JNX
R938	RES CF 22K 5% 0W166	18-CB0223-JNX
R939	RES CF 22K 5% 0W166	18-CB0223-JNX
R940	RES CF 22K 5% 0W166	18-CB0223-JNX
R941	RES CF 22K 5% 0W166	18-CB0223-JNX
R942	RES CF 22K 5% 0W166	18-CB0223-JNX
R943	RES CF 100K 5% 0W166	18-CB0104-JNX
R944	RES CF 1K 5% 0W166	18-CB0102-JNX
R945	RES CF 2K2 5% 0W166	18-CB0222-JNX
R946	RES CF 2K2 5% 0W166	18-CB0222-JNX
R946A	RES CF 2K2 5% 0W166	18-CB0222-JNX
R950	RES CF 1K 5% 0W166	18-CB0102-JNX
R950A	RES CF 1K 5% 0W166	18-CB0102-JNX
R951	RES CF 1K 5% 0W166	18-CB0102-JNX
R951A	RES CF 1K 5% 0W166	18-CB0102-JNX
RT801	PTC 20 OHM	22-PTC200-XX0
RT802	NTC 4.7OHM +/-18%	22-NTC479-XX0
VR829	TRIMMER B5K HORIZ TYPE	20-TR502H-5CX

Main Board (cont.)

Position	Description	Part Number
Transistors		
Q003	TRANS 2SK2541 (N-CHANNEL)	11-SK2541-0BX
Q004	TRANS 2N3904	11-2N3904-0BX
Q007	TRANS 2SC1815Y	11-SC1815-YBX
Q008	TRANS 2SA1015Y	11-SA1015-YBX
Q101	TRANS 2SC3779D (RF AMPL)	11-SC3779-DBX
Q201	TRANS 2SC1815Y	11-SC1815-YBX
Q202	TRANS 2SC1815Y	11-SC1815-YBX
Q203	TRANS 2SC1815Y	11-SC1815-YBX
Q204	TRANS 2SC1815Y	11-SC1815-YBX
Q205	TRANS 2SC1815Y	11-SC1815-YBX
Q210	TRANS 2SK2541 (N-CHANNEL)	11-SK2541-0BX
Q211	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q212	TRANS 2SC1815Y	11-SC1815-YBX
Q215	TRANS 2SA1015Y	11-SA1015-YBX
Q401	TRANS 2SC2482	11-SC2482-0BX
Q411	TRANS 2SD1879 (HORIZ O/P)	11-SD1879-0AX
Q412	TRANS 2SA1015Y	11-SA1015-YBX
Q413	TRANS 2SA1015Y	11-SA1015-YBX
Q414	TRANS IRF630MFP	11-630MFP-0AX
Q451	TRANS 2SC1815Y	11-SC1815-YBX
Q601	TRANS 2SA1015Y	11-SA1015-YBX
Q602	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q605	TRANS 2SC1815Y	11-SC1815-YBX
Q630	TRANS 2SC1815Y	11-SC1815-YBX
Q631	TRANS 2SC1815Y	11-SC1815-YBX
Q801	TRANS 2SK2996	11-SK2996-0AX
Q830	TRANS. 2SC2688L	11-SC2688-LAX
Q831	TRANS 2SC1815Y	11-SC1815-YBX
Q832	TRANS 2SC1815Y	11-SC1815-YBX
Q833	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q834	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q909	TRANS 2SC1815Y	11-SC1815-YBX
Q910	TRANS 2SC1815Y	11-SC1815-YBX
Q911	TRANS 2SC1815Y	11-SC1815-YBX
Q912	TRANS 2SA1015Y	11-SA1015-YBX
Q913	TRANS 2SC1815Y	11-SC1815-YBX
Q914	TRANS 2SC1815Y	11-SC1815-YBX
Q915	TRANS 2SA1015Y	11-SA1015-YBX
Q916	TRANS 2SA1015Y	11-SA1015-YBX
Miscellaneous Electrical		
F801	FUSE 250V/3.15A	50-03150D-1US7
TU101	TUNER UV1355-BK2	07-389VI5-NX4
Miscellaneous Mechanical		
	FUSE HOLDER qty2	66-20516X-0B0
	HEATSINK IC301	67-H30179-7A0
	HEATSINK IC602	67-H34423-4A0
	M/C SCREW B 3x10	64-B30100-104
	M/C SCREW P 3x10 qty2	64-P30100-104
	M/C SCREW P 3x8 qty5	64-P30080-104
	MAIN BD BRACKET	62-B159MB-2UN
	NUT M3 qty2	65-Z30050-23M
	S/T SCREW 3MM 8MM BT qty3	63-B30080-BT4
	S/T SCREW W 3MM 10MM AB qty7	63-W30100-AB4
	SCREW ST 3MM 10MM BT qty2	63-B30100-BT4
	WASHER FIBRE 3.3x10x0.8MM qty2	54-128700-0X0

Front Control Board

Position	Description	Part Number
Capacitors		
C070A	CAP ELCO 47UF 20% 16V	25-BCB470-M1X
Connectors		
P001B	HS 5P24 380 TJC3-5Y	46-35038H-05X
P801	PIN BASE *2 TJC1-2A	46-28559W-02X
S802	PIN BASE *2 TJC1-2A	46-28559W-02X
Diodes		
D1001	LED RED FB205	14-LED05R-XX1
Resistors		
R022A	RES CF 10K 5% 0W166	18-CB0103-JNX
R023A	RES CF 1K5 5% 0W166	18-CB0152-JNX
R024A	RES CF 1K8 5% 0W166	18-CB0182-JNX
R025A	RES CF 2K7 5% 0W166	18-CB0272-JNX
R026A	RES CF 4K3 5% 0W166	18-CB0432-JNX
R027A	RES.CF 6.2K +/-5% 0W166	18-CB0622-JNX
R033A	RES CF 1K 5% 0W166	18-CB0102-JNX
R070A	RES CF 47R 5% 0W166	18-CB0470-JNX
R091	RES CF 22K 5% 0W166	18-CB0223-JNX
Switches		
S002	SW. TACT VERT	48-TAC002-XX0
S003	SW. TACT VERT	48-TAC002-XX0
S004	SW. TACT VERT	48-TAC002-XX0
S005	SW. TACT VERT	48-TAC002-XX0
S006	SW. TACT VERT	48-TAC002-XX0
S007	SW. TACT VERT	48-TAC002-XX0
SW801	SWITCH POWER PS5E-B	48-POW007-AX0
Transistors		
Q082	TRANSISTOR PDTC124ES	11-C124ES-0BX
Q801	TRANS 2SA1015Y	11-SA1015-YBX
Miscellaneous Electrical		
IR1001	IR RECEIVER MODULE	11-IRR001-1X0
Miscellaneous Mechanical		
	ADAPTOR SWITCH POWER	62-262660-0HA
	FRONT CTL BD BRACKET	62-367740-0UN
	HS 2P 1617#22 350 TJC1-2Y	46-35049H-02X
	LIGHT BRACKET	62-357320-0HA
	POWER CORD 3R/P W/HOUSING	51-KC0245-0CH05
	S/T SCREW W 3MM 10MM AB qty3	63-W30100-AB4

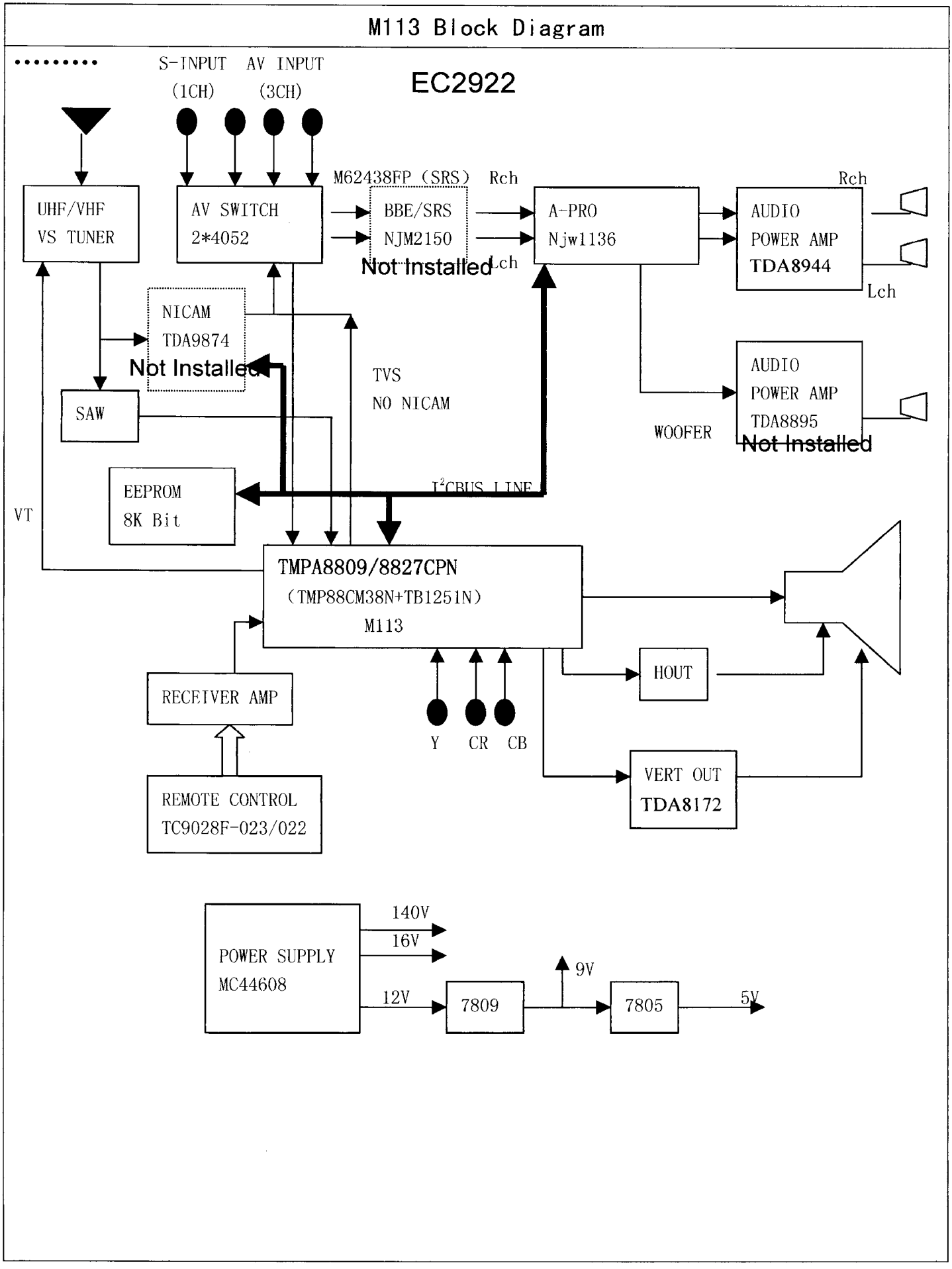
Side AV Board

	S/T SCREW 3MM 8MM BT qty2	63-B30080-BT4
P902	7P 2468#24/1185#26 550	46-39136H-07X
P951	SOCKET S-W16-J	47-SVI002-XX0
P961	JACK RCA 3PH 8MM YL WH RD/SW	47-RCA041-XX0

Accessories

	OPERATION MANUAL	72-2959BE-E321A
	REMOTE CONTROL	06-015W34-A171X

M113 Block Diagram

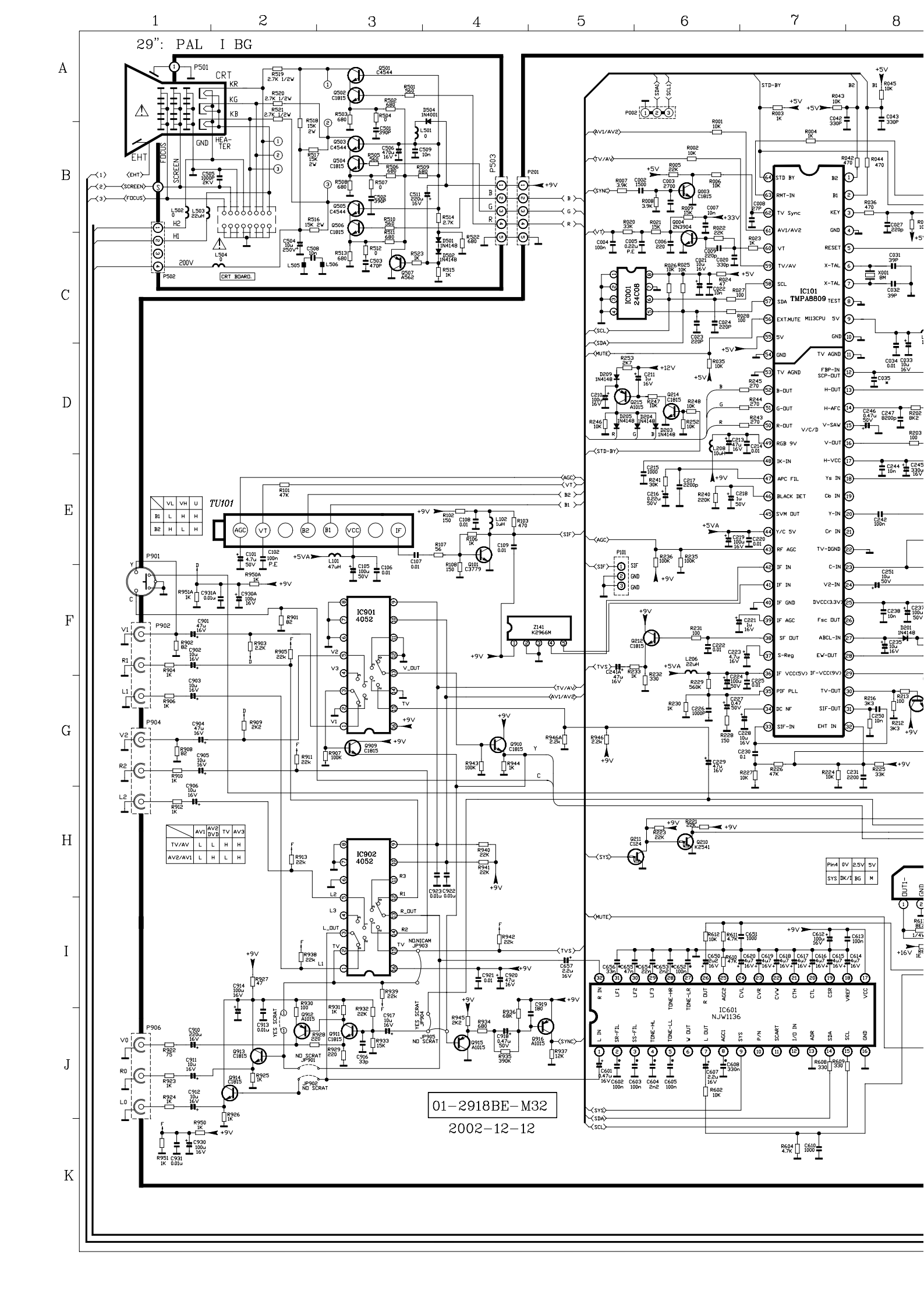


29": PAL I BG

CIRCUIT CONSTANTS AND CIRCUIT ITSELF ARE SUBJECT TO CHANGE WITHOUT NOTICE

01-2918BE-M32

2002-12-12


29": PAL I BG
IC101 TMPA8809
IC901 4052
IC902 4052
IC601 NJW1136
IC001 24C08
TU101
Z141 K2966M
01-2918BE-M32
2002-12-12

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