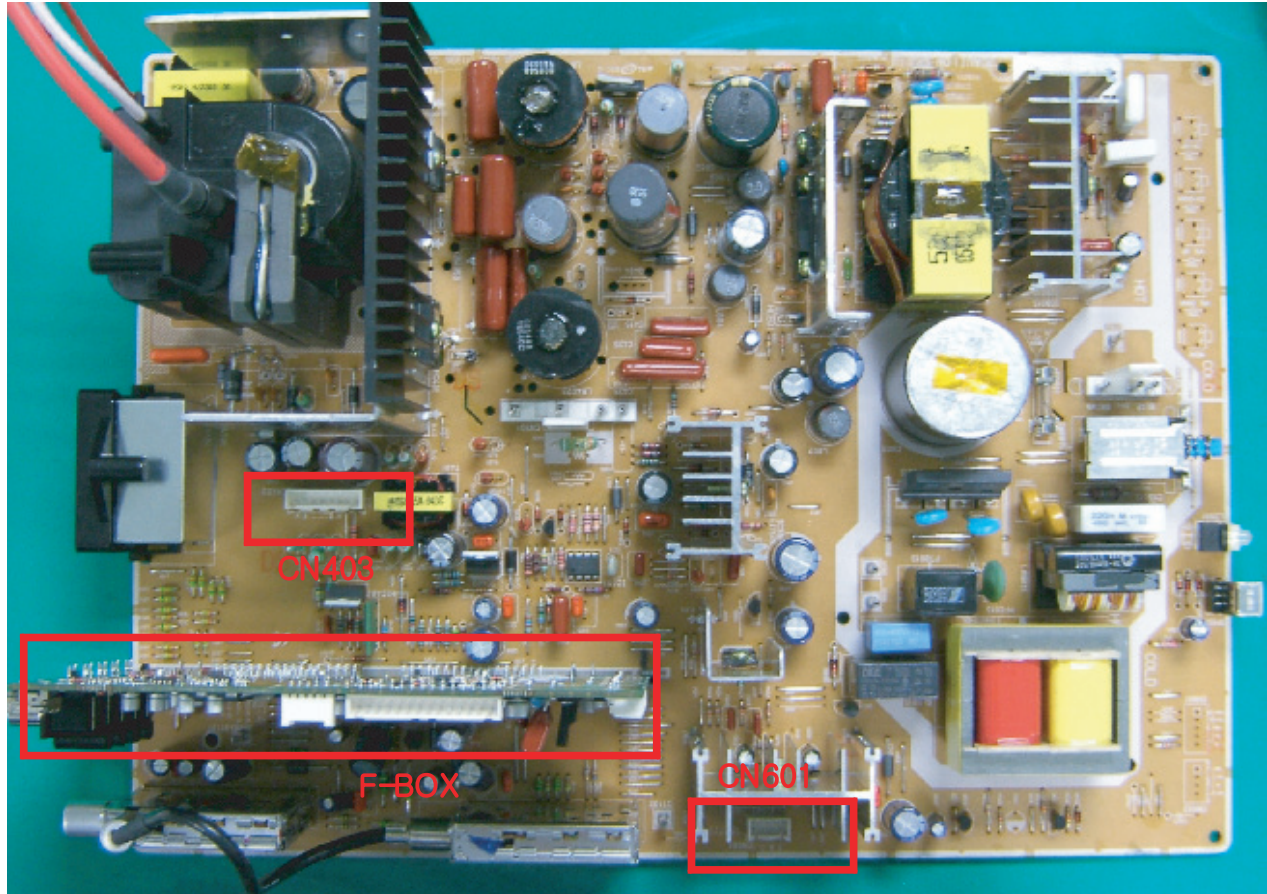


9. PCB Diagram

9-1 Main Board

9-1-1 Assy Main Board



■ The System Board that Controls Various Signals for Video Signal Processing and Product Operations

9-1-2 Names & Roles of Key Parts

- * CN601 : This is a 4 pin port connected to the Speaker, and sends the signal from the AMP to the speakers.
- * CN403 : This is a 8 pin port connected to the CRT Board and supplies 200V, +16V, -16V and Heater voltage.
- * GT804 : This is a ground port to prevent high voltage due to lighting.
- * CN802 : This is a 3 pin port connected to the AC power cable. It is connected to the power cable socket.
- * GT805, GT806 : This is a port connected to the D-Coil surrounding the CRT.

9-1-3 Main Board Connector Pin

CN401

Connected to the CRT Board

Pin No.	Pin Name
1	200V
2	NC
3	Heater
4	GND
5	-16.5V
6	+16.5V
7	GND
8	NC

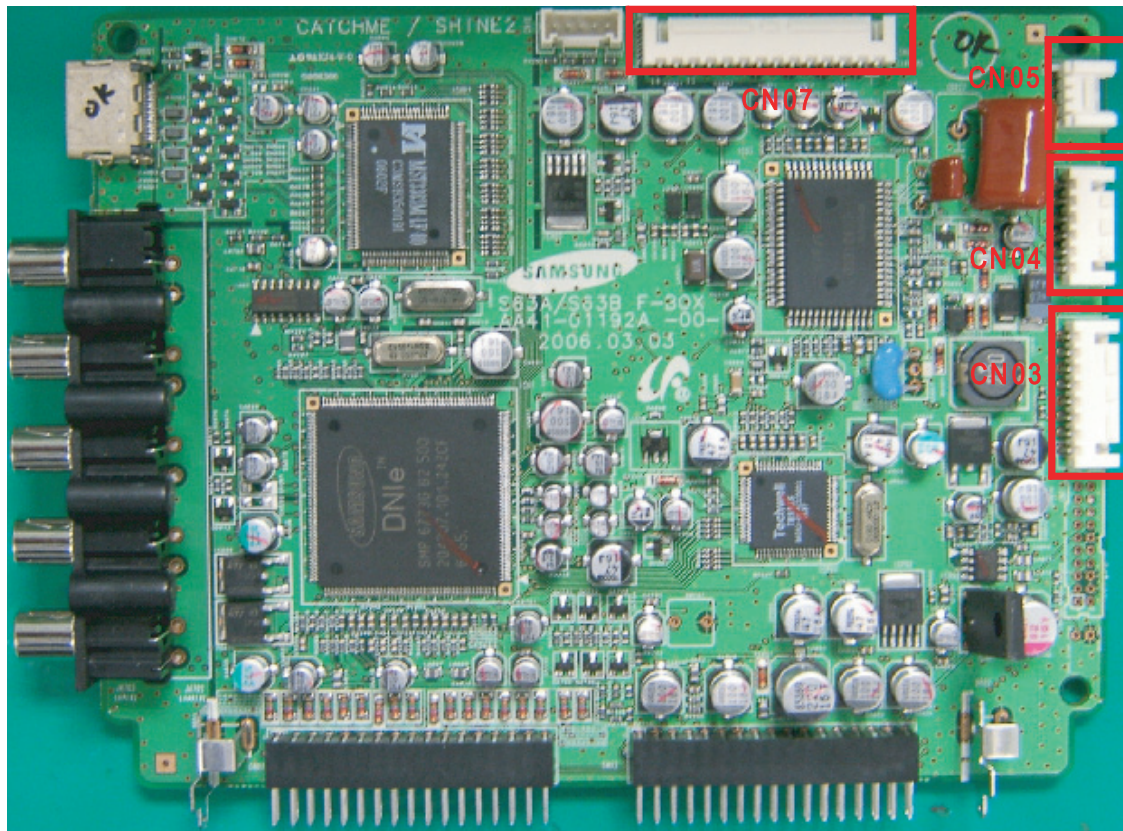
CN601

Connected to the Speaker Port

Pin No.	Pin Name
1	R+
2	R-
3	L+
4	L-

9-2 Feature Box Board

9-2-1 Assy Feature Box Board



■ This controls the path of the electron beams from the CRT electron guns using the deflection coil.

9-2-2 Names & Roles of Key Parts

- * CN07 : This is a 14 pin port connected to the CRT Assy's, and outputs final R/G/B signals to the CRT Ass'y.
In addition, it outputs the Tilt, VM, and Power signals for the CRT Drive.
- * CN05 : This is a 4 pin port connected to the Control Ass'y, and receives TV/Video, Menu, Ch Up/Down and Vol +/- signals.
- * CN04 : This is a 6 pin port connected to the Master Ass'y, and receives Master Power On/Off, and IR signals.
- * CN03 : This is a 8 pin port connected to the Side AV, and receives S-Video2 and AV4 external inputs.

9-2-3 Feature Box Board Connector Pin

CN07

Connected to the CRT Ass'y

Pin No.	Pin Name
1	AKB
2	GND
3	B-OUT
4	GND
5	G-OUT
6	GND
7	R-OUT
8	GND
9	12V_A
10	SVM
11	POWER
12	TILT
13	SVM
14	GND

CN04

Connected to the Master Ass'y

Pin No.	Pin Name
1	TIMER-LED
2	STD-LED
3	GND
4	NC
5	5V-STD
6	IR

CN05

Connected to the Control Ass'y

Pin No.	Pin Name
1	GND
2	KEY-1
3	NC
4	KEY-2

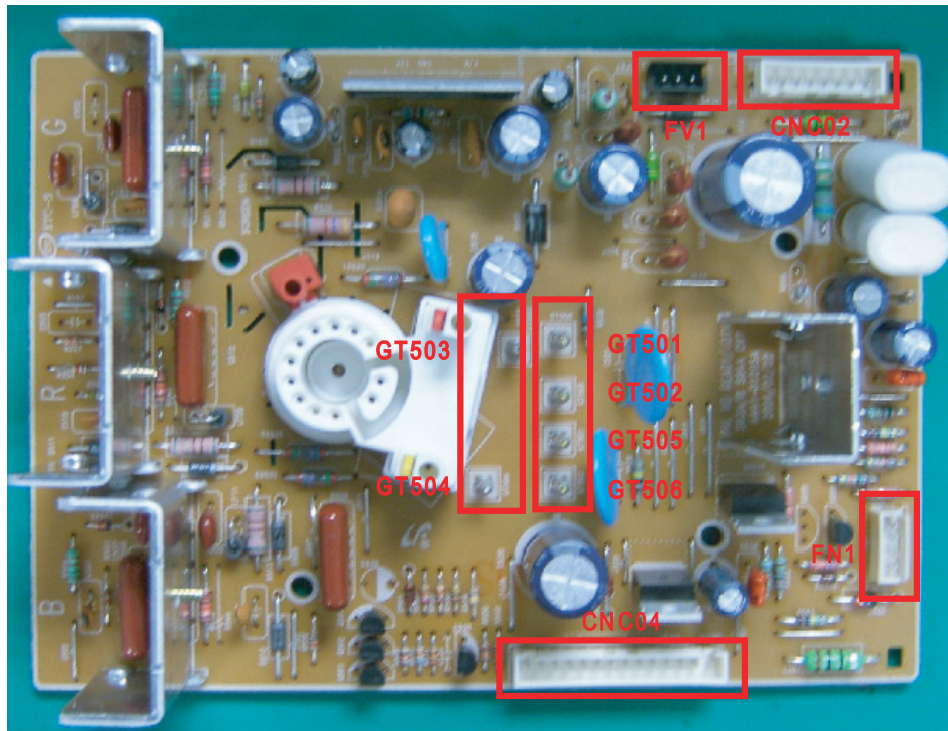
CN03

Connected to the Side AV Port

Pin No.	Pin Name
1	SV-C-IN
2	SV-C-ID
3	F-CVBS IN
4	GND
5	FAV-L-IN
6	GND
7	FAV-R-IN
8	GND

9-3 CRT Board

9-3-1 Assy CRT Board



■ CRT Drive

This supplies the final R/G/B signal from the F-Box and the CRT deflection signal to the CRT

9-3-2 Names & Roles of Key Parts

- * GT501, GT502, GT505, GT506 : This is a port connected to the TBC-Wire and plays the role of CRT ground.
- * GT503, GT504 : This is a port for countermeasures against compulsory discharges and is connected to the Main Board.
- * CNC04 : This is a port to receive the R/G/B output signals from the Feature Box.
- * CNC02 : This is a port that receives power for the CRT and AMP from the Main Board.
- * FV1 : A port to connect the VM signal to the DY Ass'y.
- * FN1 : A port to connect signals to the Tilt Coil and is required for the screen slant adjustment.

9-3-3 CRT Board Connector Pin

CNC04

Connected to R/G/B signal from the Feature Box

Pin No.	Pin Name
1	AKB
2	GND
3	B-OUT
4	GND
5	G-OUT
6	GND
7	R-OUT
8	GND
9	12V_A
10	SVM
11	POWER
12	TILT
13	SVM
14	GND

FV1

Connected the VM signal to the DY Ass'y

Pin No.	Pin Name
1	VM
2	NC
3	VM

CNC02

Connects the power from the Main Board

Pin No.	Pin Name
1	200V
2	NC
3	Heater
4	GND
5	-16.5V
6	+16.5V
7	GND
8	NC

FN1

Connects the signal to the Tilt Coil

Pin No.	Pin Name
1	GND
2	GND
3	TILT
4	TILT