

# SERVICE BULLETIN

**PRODUCT:** Computer Monitor  
**BULLETIN:** MON 98-002  
**MODEL:** F-Series, M-Series, G-Series

**SUBJECT:** Microprocessor Alignment Jigs

**BACKGROUND:** Many Samsung monitors use proprietary alignment jigs and software in order to align geometry and color. This bulletin will describe the differences between the alignment jigs.

**SOLUTION:** There currently are three alignment kits that are available to perform factory preset adjustments to F, M, and G Series color monitors. Listed below are the alignment kits and accessories for each model.

MODEL #	SERIES	ALIGNMENT JIG	KIT ACCESORIES
CSQ4387L	F	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CSR5987L	F	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CSN5987L	F	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CST7687L	F	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CFA7689L	F	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CFG9637L	F	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CFX1577L	F	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CMA5377L	M	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CMB5477L	M	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CMG7377L	M	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CMG7387L	M	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CMH7379L	M	KIT-MC-250	1 AC CORD, 1 MC-250, 3 DATA CABLES
CGK5507M	G	KIT-SOFTJIG	1 DC ADAPTER, 1 SIGNAL CABLE, 1 PARALLEL DATA CABLE, 1 INTERFACE BOARD, 1 SOFTWARE DISKETTE
CGB5607L	G	KIT-SOFTJIG	1 DC ADAPTER, 1 SIGNAL CABLE, 1 PARALLEL DATA CABLE, 1 INTERFACE BOARD, 1 SOFTWARE DISKETTE
CGC5607T	G	KIT-SOFTJIG	1 DC ADAPTER, 1 SIGNAL CABLE, 1 PARALLEL DATA CABLE, 1 INTERFACE BOARD, 1 SOFTWARE DISKETTE
CGE7607M	G	KIT-SOFTJIG	1 DC ADAPTER, 1 SIGNAL CABLE, 1 PARALLEL DATA CABLE, 1 INTERFACE BOARD, 1 SOFTWARE DISKETTE
CGM7609L	G	KIT-SOFTJIG	1 DC ADAPTER, 1 SIGNAL CABLE, 1 PARALLEL DATA CABLE, 1 INTERFACE BOARD, 1 SOFTWARE DISKETTE
CGH7609T	G	KIT-SOFTJIG	1 DC ADAPTER, 1 SIGNAL CABLE, 1 PARALLEL DATA CABLE, 1 INTERFACE BOARD, 1 SOFTWARE DISKETTE
CGX1609T	G	KIT-1000p SOFTJIG	1 NINE TO THREE PIN SERIAL DATA CABLE,

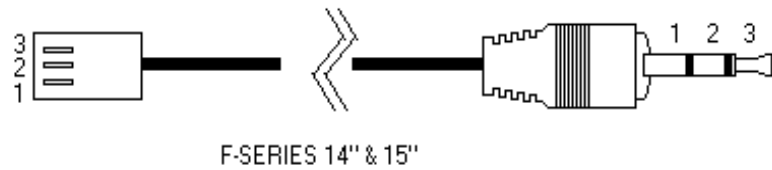
## F-Series/M-Series Color Monitors

The KIT MC-250 aligns geometric on F Series color monitors. The MC-250 aligns color as well as geometric on M Series color monitors. The MC-250 utilizes three different data interface cables for the models that it supports.

1) The cable shown below is dedicated for the 17", 20", and 21" F and M Series color monitors.



2) The cable shown below is dedicated for the 14" and 15" F-Series color monitors. In order to make a distinction, the length of the cable is 38". The numbers 1, 2, and 3 shown in the illustration below indicate the corresponding connecting pins.



3) The cable shown below is dedicated for the 15" M-Series color monitors. In order to make a distinction, the length of the cable is 28". The numbers 1, 2, and 3 shown in the illustration below indicate the corresponding connecting pins.



Error Codes - If an ERROR 1 code is displayed in the MC-250 LCD readout after attempting to align or save data, check the following items pertaining to the micom jig.

- 1) Check the M-Project and F-Project crystal project selection switch located on the top of the MC-250 for the proper setting.
- 2) Check to see if the correct project monitor is shown in the LCD display.
- 3) Check the data cable connections.
- 4) Check to see if the correct MC-250 model selection is shown in the LCD display.
- 5) Check to see if the correct data cable is being used.

CFX1577L - Omitted from the MC-250 user's guide is the 21" F Series color monitor. This model can be aligned by selecting SAMSUNG 21" from the model select list in the MC-250.

### **G-Series Color Monitors**

The 15" and 17" G-Series color monitors utilize an alignment kit named Softjig. The Softjig includes a DOS based alignment program on a 3½" diskette, parallel cable, interface board, signal cable with a spliced-in 3 pin harness cable, and an AC adapter. The Softjig requires the use of a PC and mouse. Softjig performs both color and geometric adjustments. When using the Softjig refer to the service manual for the particular monitor that needs alignment.

The 21" G-Series SyncMaster 1000p (CGX1609T) color monitor utilizes it's own softjig alignment kit. The kit includes a 3½" diskette holding the alignment program and a 9 pin serial to 3 pin stereo audio type connector. This kit also requires the use of a PC and mouse. Data can be transferred from either PC serial port whether it's the 9 pin or 25 pin. A 9 to 25 pin serial adapter is not supplied. This may be purchased from any computer store.

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