
Samsung ER-650/655

Peripheral Installation Guide



All specifications are subject to change without notice.

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Introduction

About this Manual

This manual is a convenient one-stop source of hardware installation information for connecting the Samsung ER-650 or ER-655 to a wide range of peripheral devices.

This manual is organized by type of device. Information included here includes:

- Specifications for the cable connection, and/or interface.
- Settings for the peripheral device, if necessary.
- Settings or program requirements for the ECR.

For additional information, consult the ER-650 Operation and Program Manual or Service manual.

Every effort has been made to insure the accuracy of information presented here. At the time this manual was compiled, all devices documented here have been tested and perform as intended. However, since many of the peripherals are obtained from sources other than CCR, CCR does not guarantee any aspect of the performance of those peripheral devices, including their fitness for the intended application, or their availability. Information regarding features, specifications, availability, and/or warranties of peripherals should be directed to the supplier of the peripheral device. Refer to the warranty statement supplied with each CCR product for warranty information about products supplied by CCR.

Personal Computers/Polling

Overview

Hardware

The minimum requirements for a PC connected to a Samsung ER-650/655 system include:

- An IBM Compatible PC with an available serial port.
- DOS Version 5.0 or later.
- An EGA/VGA Monitor.
- A Hard disk drive.
- A Hayes compatible modem, if off site communications are supported and used. The modem should be capable of 9600 BAUD transmission.

Software requirements or other considerations may affect your PC selection.

REMINDER: You cannot communicate between the PC and the register unless the register is in the PC Communication mode.

Cable Configurations

You can configure cables yourself with the diagrams provided here, or you can order the appropriate cables from CCR Parts at +27 11 8369512.

Direct Connection

Samsung Port 1 or 2 DB-9M	PC DB-9F
DCD1	1DCD
RXD2	2RXD
TXD3	3TXD
DTR4	4DTR
GND5	5GND
DSR6	6DSR
RTS7	7RTS
CTS8	8CTS
VCC9	9RI

Samsung Port 1 or 2 DB-9M	PC DB-25F
DCD1	1ChGND
RXD2	2TXD
TXD3	3RXD
DTR4	4RTS
GND5	5CTS
DSR6	6DSR
RTS7	7GND
CTS8	8DCD
VCC9	20DTR

Modem Connection

Samsung DB-9M Port 1/2	MODEM DB-25M
DCD1	1ChGND
RXD2	2TXD
TXD3	3RXD
DTR4	4RTS
GND5	5CTS
DSR6	6DSR
RTS7	7GND
CTS8	8DCD
VCC9	20DTR

PC DB-9M	Modem DB-25M
DCD	1ChGND
RXD	2TXD
TXD	3RXD
DTR	4RTS
GND	5CTS
DSR	6DSR
RTS	7GND
CTS	8DCD
VCC	20DTR

ECR Settings for PC Communications

To communicate with your *Samsung ER-650/655*, you must first set one of the RS232C ports for polling, and then you must place the register in online mode.

Setting RS232C Port Options

1. At the **SM** control lock position menu, press **8** for RS232C Port 1 programming or **9** for RS232C Port 2 programming. The appropriate **PORT PROGRAM** screen displays:

```
PORT 1 PROGRAM pg1
BAUD RATE          0 ←
0 : 9,600   1 : 1,200
2 : 2,400   3 : 4,800
4 : 19,000
PARITY CHECK       0
0 : NONE  1 : ODD  2 : EVEN
DATA BITS (0 : 8  1 : 7) 0
```

2. Be sure that the register BAUD RATE settings match the store information settings in *SAM 650*.
3. Press **PAGE DOWN** to view the page 2 of the RS232C port program:

```
PORT 1 PROGRAM pg2
STOP BITS (0 : 1  1 : 2) 0 ←
DEVICE FUNCTION    1
-----
0 : NONE  1 : PC    2 : SCL
3 : RJ    4 : RP    5 : LT
6 : SCAN  7 : COIN  8 : LIQ
9 : POLE
```

4. At the DEVICE FUNCTION field, choose 1(PC).
5. Press the **ENTER** key to finalize then press **ESCAPE** to return to the **SERVICE MODE** screen.

Placing the Register in Online Mode

To be polled by a PC, the register must be placed in the PC ONLINE MODE.

You can place the PC in ONLINE MODE manually by selecting the PC COMMUNICATION function from the RESET REPORT MODE menu.

- From the **RESET REPORT MODE** menu press **2** (PC Communications) to place the register in Online Mode.

If you wish to complete unattended polling, you can program the *ER-650/655* to automatically enter the PC ONLINE MODE at a scheduled time.

1. From the **PGM** control lock position menu, press **00** for **MORE**. The **PROGRAM MODE page 2** screen displays. Press **PAGE DOWN** to view the remainder of the page 2 program options.
2. From the **PROGRAM MODE page 2** screen, press **8** for **PC SCHEDULE TIME**. The **PC SCHEDULE PROG.** screen displays:

```
PC SCHEDULE PROG .  
  
SET TIME :      HH:MM  
(MILITARY)    00:00←
```

3. Type the time (using military time) you wish to enter PC Communication mode, press **ENTER**.

Printers

ECR Settings

RS232C Port 1/RS232C Port 2 Options

1. At the **SM** control lock position menu, press **8** for RS232C Port 1 programming or **9** for RS232C Port 2 programming. The appropriate **PORT PROGRAM** screen displays:

```
PORT 1 PROGRAM pg1
BAUD RATE          0←
 0: 9,600   1:1,200
 2: 2,400   3:4,800
 4:19,000
PARITY CHECK       0
0:NONE 1:ODD 2:EVEN
DATA BITS(0:8 1:7)0
```

2. Verify the default settings for BAUD rate, parity check, and data bits: BAUD=0 (9600), PARITY CHECK=0 (NONE) and DATA BITS=0 (8).
3. Press **PAGE DOWN** to view page 2 of the RS232C port program. At the **DEVICE FUNCTION** field, select 3 (Remote Journal) or 4 (Remote Printer).

```
PORT 1 PROGRAM pg2
STOP BITS(0:1 1:2)0←
DEVICE FUNCTION    4
-----
0:NONE 1:PC   2:SCL
3:RJ   4:RP   5:LT
6:SCAN 7:COIN 8:LIQ
9:POLE
```

4. Press **PAGE DOWN** to view page 3 of the RS232C port program. If necessary, set the INITIAL FEEDING LINE and ENDING FEEDING LINE fields.

```
PORT 1 PROGRAM pg3
INITIAL FEEDING LINE
ON KP(0-20)      00←
ENDING FEEDING LINE
ON KP(0-20)      00
INITIAL FEEDING LINE
ON SLIP(0-20)    00
```

5. Press **PAGE DOWN** to view page 4 of the RS232C port program. At the PRINTER TYPE field, enter the number representing the type of printer you are connecting. If necessary, press **PAGE DOWN** to view the codes for each printer model.

```
PORT 1 PROGRAM pg4
PRINT LINE ON GUEST
CHECK(0-50)      0←
SCALE TYPE
0:NCI    1:CAS    0
PRINTER TYPE      0
0:NONE
1:SAM SRP-100
```

```
PORT 1 PROGRAM pg5
PRINTER TYPE      0←
2:SAM SRP-250
3:SAM SRP-300
4:SAM SRP-350
5:CITIZEN 3550/3551
6:CITIZEN 810
7:CITIZEN 230
```

```
PORT 1 PROGRAM pg6
PRINTER TYPE      0←
8:EPSON TM-T88-2
9:EPSON U200
10:EPSON U295
11:EPSON U300
12:EPSON U325
13:EPSON U375
```

```

PORT 1 PROGRAM pg7
PRINTER TYPE      0←
14:STAR SP-200
15:STAR SP-298
16:STAR SP-300
17:STAR TSP-200

```

6. Press the **ENTER** key to finalize, then press **ESCAPE** to return to the **SERVICE MODE** screen.

Cable Configuration

Samsung Port1 or2 DB-9M		Printer DB-25M	
DCD	1	1	ChGND
RXD	2	2	TXD
TXD	3	3	RXD
DTR	4	4	RTS
GND	5	5	CTS
DSR	6	6	DSR
RTS	7	7	GND
CTS	8	8	DCD
VCC	9	20	DTR

Printers Supported & DIP Switch Settings

Samsung SRP100A/B (Dot Matrix Printer)

A set of 10 DIP switches is located on the under side of the printer. Make sure the printer is off and set the switches as described below.

ON										
OFF	X	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	9	10

Citizen IDP 3550/3551 (Dot Matrix Printer)

Two sets of 8 DIP switches underneath the left front of the printer housing and may be accessed by removing the printer cover. Make sure the printer is off and set the switches as described below.

DSW1

ON	*	X	X	X	X			X		
OFF	*					X	X		X	X
	1	2	3	4	5	6	7	8	9	10

* Set switch 1 of DSW1 to **OFF** for the IDP 3550. Set to **ON** for the IDP 3551 (auto cut).

DSW2

ON	X	X	X	X	X	X				
OFF							X	X		
	1	2	3	4	5	6	7	8		

Star SP200 (Dot Matrix Printer)

A set of 10 DIP switches is located under the ROM cover located to the left of the connector on the under side of the printer. Make sure the printer is off and set the switches as described below.

ON	X	X	X	X	X	X	X	X	X	X
OFF										
	1	2	3	4	5	6	7	8	9	10

Epson TM-U300 (Dot Matrix Printer)

A set of 10 DIP switches are located on the under side of the printer. Make sure the printer is off and set the switches as described below.

ON										X
OFF	X	X	X	X	X	X	X	X	X	
	1	2	3	4	5	6	7	8	9	10

Epson TM-U200 (Dot Matrix Printer)

Two sets of DIP switches (DS1 has 8 switches; DS2 has 4 switches) are located under an access cover on the under side of the printer. (Remove the access cover with the single screw.) Make sure the printer is off and set the switches as described below.

DSW1

ON									
OFF	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	

DSW2

ON				
OFF	X	X	X	X
	1	2	3	4

Epson TM-295 (Slip Printer)

A set of 10 DIP switches are located on the under side of the printer. Make sure the printer is off and set the switches as described below:

ON										
OFF	X	X	X	X	X	X	X	X	X	
	1	2	3	4	5	6	7	8	9	10

CBM 810 (Slip Printer)

A set of 10 DIP switches are located at the rear of the printer. Make sure the printer is off and set the switches as described below:

ON										
OFF	X	X	X	X	X	X	X	X	X	
	1	2	3	4	5	6	7	8	9	10

Epson TM-T88 (Thermal Printer)

Two sets of 8 DIP switches are located under the DIP switch access cover located on the under side of the printer. Make sure the printer is off and set the switches as described below.

DSW1

ON							X	
OFF	X	X	X	X	X	X		X
	1	2	3	4	5	6	7	8

DSW2

ON								
OFF	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8

Citizen CBM 230/231 (Thermal Printers)

Four sets of DIP switches are located under the DIP switch cover. (Lift the printer cover and remove the screw that secures the right paper roll holder/DIP switch cover.) Make sure the printer is off and set the switches as described below.

DS1

ON	*							
OFF	*	X	X	X	X	X	X	
	1	2	3	4	5	6	7	8

DS3

X	X	X	X
1	2	3	4

* Set switch 1 of DS1 to **OFF** for the CBM 230. Set to **ON** for the CBM 231 (auto cut).

DS2

ON	X							
OFF		X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8

DS4

	X	X	
X			X
1	2	3	4

Samsung SRP-270

Two sets of 8 DIP switches underneath the access panel on the bottom of the printer cabinet. Make sure the printer is off and set the switches as described below. SW1, switch #3 must be on to activate the autocutter.

SW1	ON			X				
	OFF	X	X		X	X	X	X
		1	2	3	4	5	6	7

SW2	ON							
	OFF	X	X	X	X	X	X	X
		1	2	3	4	5	6	7

Samsung SRP-350

Two sets of 8 DIP switches underneath the access panel on the bottom of the printer cabinet. Make sure the printer is off and set the switches as described below. These settings reflect 9600 BAUD. If you wish 19,200 BAUD, set all switches in DSW1 to OFF.

DSW1

ON							X	
OFF	X	X	X	X	X	X		X
	1	2	3	4	5	6	7	8

DSW2

ON								
OFF	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8

Scanners

ECR Settings

RS232C Port 1/RS232C Port 2 Options

1. At the **SM** control lock position menu, press **8** for RS232C Port 1 programming or **9** for RS232C Port 2 programming. The appropriate **PORT PROGRAM** screen displays:

```
PORT 1 PROGRAM pg1
BAUD RATE          0←
 0: 9,600   1:1,200
 2: 2,400   3:4,800
 4:19,000
PARITY CHECK       0
0:NONE 1:ODD 2:EVEN
DATA BITS(0:8 1:7)0
```

2. Verify the default settings for BAUD rate, parity check, and data bits: BAUD=0 (9600), PARITY CHECK=0 (NONE) and DATA BITS=0 (8).

- At the DEVICE FUNCTION field, enter 6 for scanner.

```

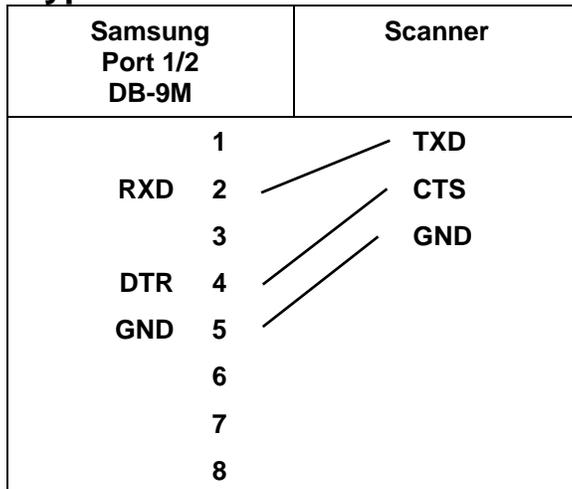
PORT 1 PROGRAM pg2
STOP BITS(0:1 1:2)0←
DEVICE FUNCTION 6
-----
0:NONE 1:PC 2:SCL
3:RJ 4:RP 5:LT
6:SCAN 7:COIN 8:LIQ
9:POLE

```

- Press the **ENTER** key to finalize, then press **ESCAPE** to return to the **SERVICE MODE** screen.

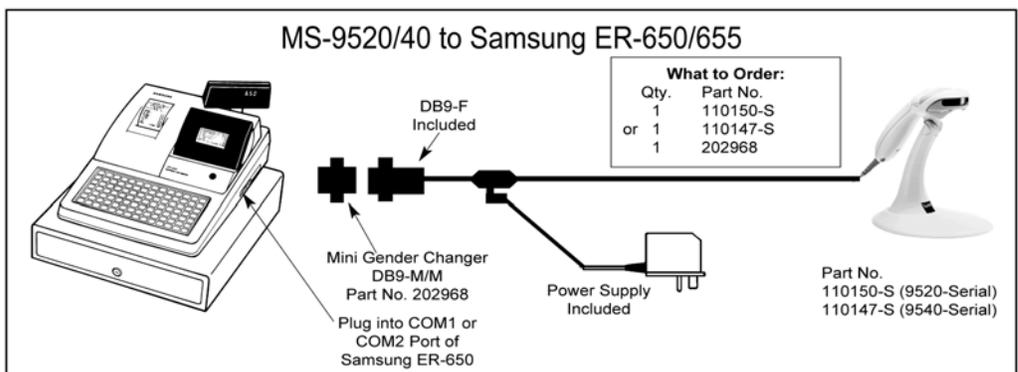
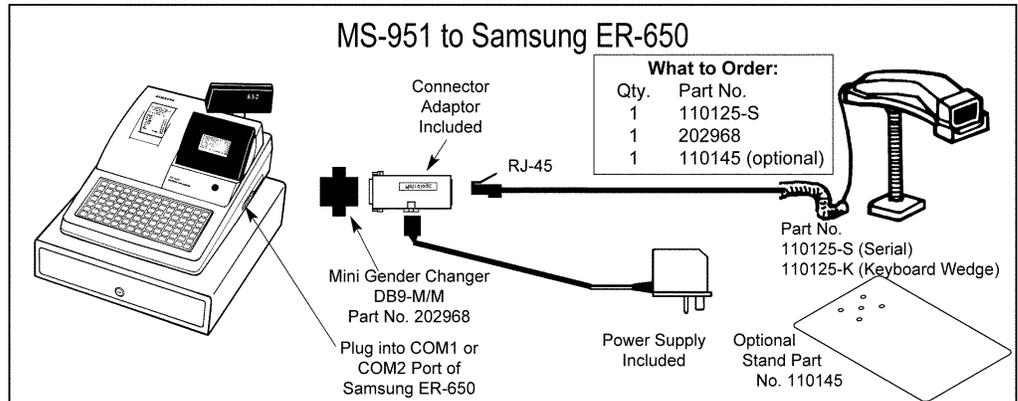
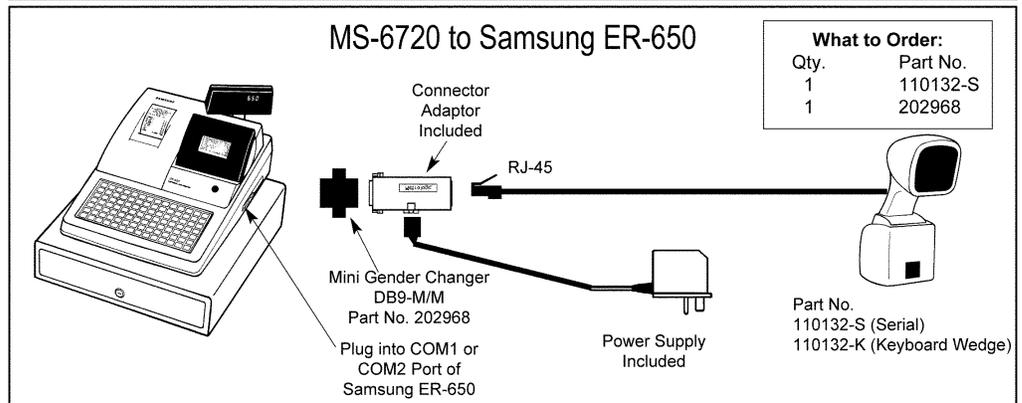
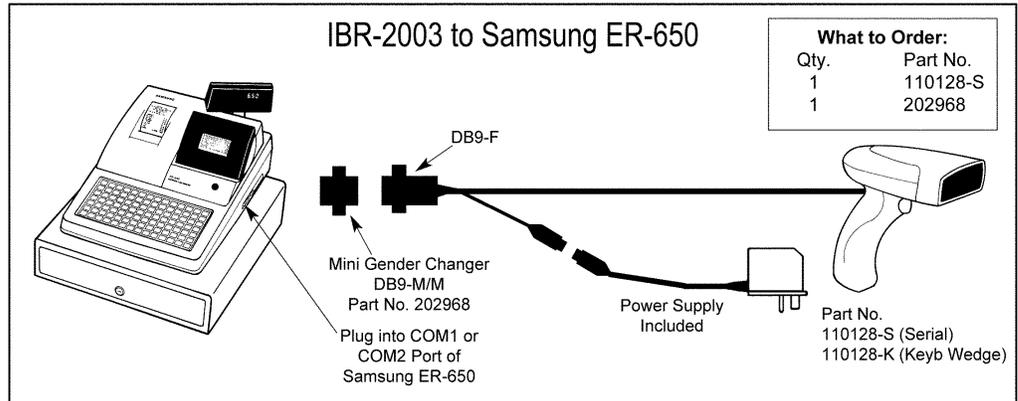
Cable Configurations

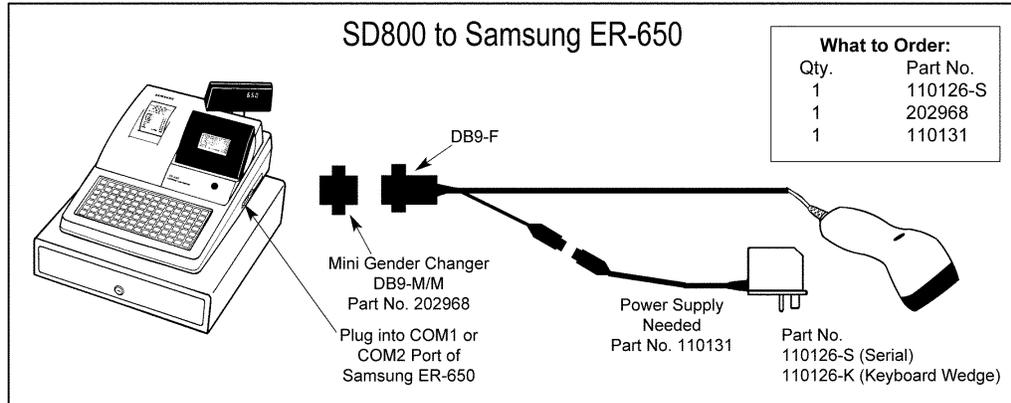
Typical Scanner Connections



Note: An external power supply is needed for scanners connected to the ER 650.

Scanner Connection Diagrams for ER-650/655

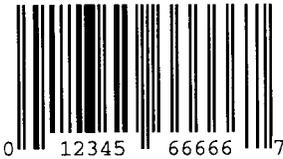




Scanner Setup Information

Scan Codes for 6720 Laser Scanner

ENTER PROGRAM



LOAD DEFAULTS



EXIT PROGRAM



Scan Codes for 951 Laser Scanner

Enter/Exit Program Mode



Recall Defaults



LF Off



Prefix ID On



→ optional

UPC-E Check Digit On

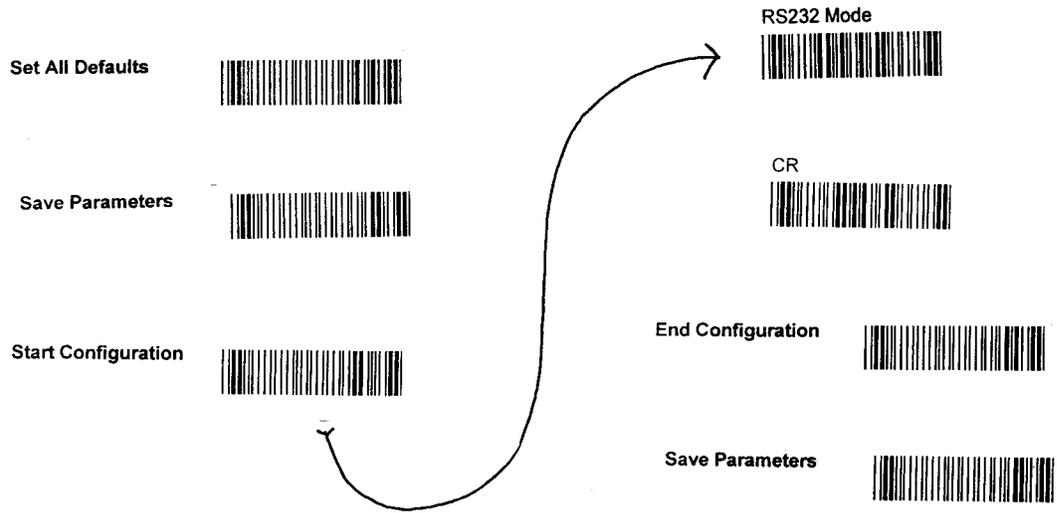


→ optional

Enter/Exit Program Mode



Scan Codes for SD-800 CCD Scanner



Scan Codes for IBR-2003 CCD Scanner



Set All Defaults

Scan Codes for 9520 Laser Scanner

ENTER PROGRAM



LOAD DEFAULTS



EXIT PROGRAM



Kitchen Video

ECR Settings

RS232C Port 1/RS232C Port 2 Options

1. At the **SM** control lock position menu, press **8** for RS232C Port 1 programming or **9** for RS232C Port 2 programming. The appropriate **PORT PROGRAM** screen displays:

```
PORT 1 PROGRAM pg1
BAUD RATE          0←
 0: 9,600   1:1,200
 2: 2,400   3:4,800
 4:19,000
PARITY CHECK       0
0:NONE 1:ODD 2:EVEN
DATA BITS(0:8 1:7)0
```

2. Verify the default settings for BAUD rate, parity check, and data bits: BAUD=0 (9600), PARITY CHECK=0 (NONE) and DATA BITS=0 (8).
3. At the DEVICE FUNCTION field, enter 4 for Remote Printer.

```
PORT 1 PROGRAM pg2
STOP BITS(0:1 1:2)0←
DEVICE FUNCTION    4
-----
0:NONE 1:PC   2:SCL
3:RJ   4:RP   5:LT
6:SCAN 7:COIN 8:LIQ
9:POLE
```

4. Press **PAGE DOWN** until you view page 4 of the RS232C port program. At the **PRINTER TYPE** field, enter "8" (representing the TM-T88-2 printer-the ER 650 uses this data for kitchen video output.) Refer the *KDS 650 Video Programming Manual* and the *ER-650/655 Programming Manual* for more information.

```
PORT 1 PROGRAM pg4
PRINT LINE ON GUEST
CHECK(0-50)      0←
SCALE TYPE
0:NCI    1:CAS    0
PRINTER TYPE      8
0:NONE
1:SAM SRP-100
```

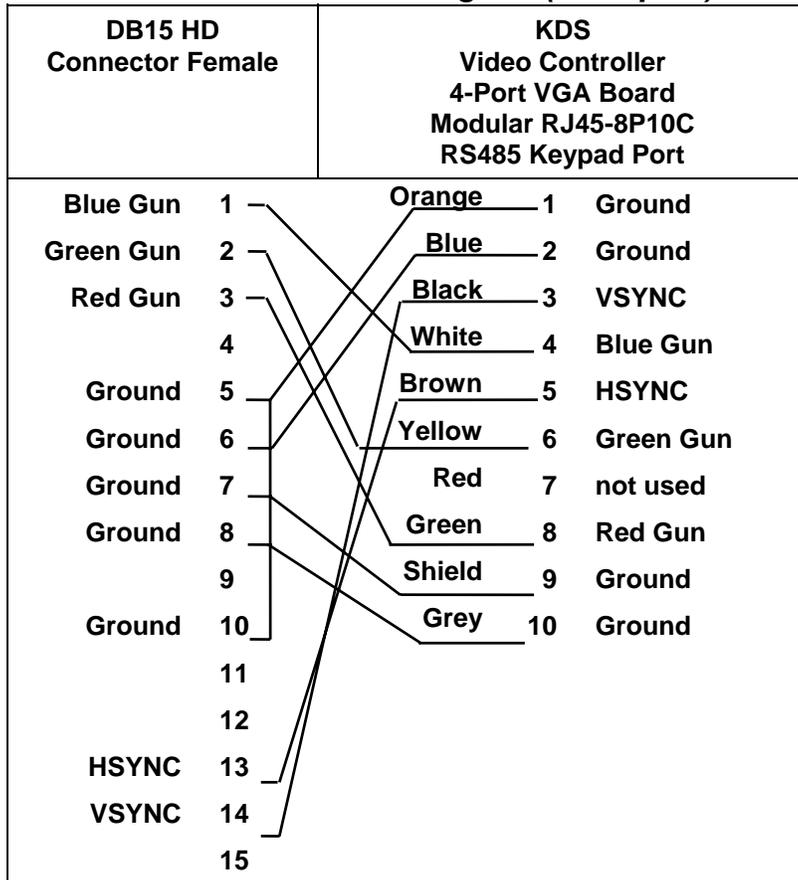
5. Press the **ENTER** key to finalize, then press **ESCAPE** to return to the **SERVICE MODE** screen.

Cable Configurations

VGA Extension Cables

HDDB15F		HDDB15M	
Blue Gun	1	1	Blue Gun
Green Gun	2	2	Green Gun
Red Gun	3	3	Red Gun
Ground	5	5	Ground
Ground	6	6	Ground
Ground	7	7	Ground
Ground	8	8	Ground
Ground	10	10	Ground
HSYNC	13	13	HSYNC
VSYNC	14	14	VSYNC

VGA Cable Diagram (Microplus)



**Bump Bar Cable
(Progressive Video)**

DB-15M	DB-15F
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

**Bump Bar Cable
(Microplus)**

Modular Plug	6 conductor plug (connects to CN5 on keypad board)
SIG GND 1	FRM GND 1
485 BUSB 2	+V 2
485 BUSA 3	485 BUSA 3
FRM GND 4	485 BUSB 4
+V 5	SIG GND 5
not used 6	not used 6
+V 7	
SIG GND 8	

Samsung 650 to Microplus Video Controller PC

Samsung Ports 1&2 DB-9M	PC DB-9F
DCD1	1DCD
RXD2	2RXD
TXD3	3TXD
DTR4	4DTR
GND5	5GND
DSR6	6DSR
RTS7	7RTS
CTS8	8CTS
RI9	9RI

Samsung Ports 1&2 DB-9M	PC DB-25F
DCD1	1ChGND
RXD2	2TXD
TXD3	3RXD
DTR4	4RTS
GND5	5CTS
DSR6	6DSR
RTS7	7GND
CTS8	8DCD
RI9	20DTR
	22RI

Scales

ECR Settings

RS232C Port 1/RS232C Port 2 Options

1. At the **SM** control lock position menu, press **8** for RS232C Port 1 programming or **9** for RS232C Port 2 programming. The appropriate **PORT PROGRAM** screen displays:

```
PORT 1 PROGRAM pg1
BAUD RATE          0←
 0: 9,600   1:1,200
 2: 2,400   3:4,800
 4:19,000
PARITY CHECK       2
0:NONE 1:ODD 2:EVEN
DATA BITS(0:8 1:7)1
```

2. Set the BAUD rate, parity check, and data bits: BAUD=0 (9600), PARITY CHECK=2 (EVEN) and DATA BITS=1 (7).
3. Press **PAGE DOWN** to view page 2 of the RS232C port program. Set the DEVICE FUNCTION field to 2 for scales.

```
PORT 1 PROGRAM pg2
STOP BITS(0:1 1:2)0←
DEVICE FUNCTION    2
-----
0:NONE 1:PC   2:SCL
3:RJ   4:RP   5:LT
6:SCAN 7:COIN 8:LIQ
9:POLE
```

4. Press **PAGE DOWN** to view page 3 of the RS232C port program, then press **PAGE DOWN** to view page 4 of the RS232C port program. At the **SCALE TYPE** field enter 0 for an NCI scale or enter 1 for a CAS scale. (If you are using the CAS PD-1 scale, set to 0 for NCI.)

```
PORT 1 PROGRAM pg4
PRINT LINE ON GUEST
CHECK ( 0 - 50 )      0 ←
SCALE TYPE
0 : NCI      1 : CAS      0
PRINTER TYPE      0
0 : NONE
1 : SAM SRP - 100
```

5. Press the **ENTER** key to finalize, then press **CLEAR** to return to the **SERVICE MODE** screen.

Scale Settings

When ordering CAS or NCI scales, be sure to specify the make and model of the register you intend to interface. If the out of box setting do not work with your ECR, call CCR product support for assistance.

Cable Configurations

NCI 6710/6720

Samsung Port1 or2 DB-9M		NCI 6710/6720 DB-15M	
DCD	1	1	RXD
RXD	2	2	TXD
TXD	3	3	GND
DTR	4	4	
GND	5	5	
DSR	6	6	
RTS	7	7	
CTS	8	8	
Shield	FR		

Samsung Port1 or2 DB-9M		NCI 6710/6720 DB-9	
DCD	1	1	
RXD	2	2	TXD
TXD	3	3	RXD
DTR	4	4	
GND	5	5	GND
DSR	6	6	
RTS	7	7	
CTS	8	8	
Shield	FR		

CAS PD-1

Samsung Port1 or2 DB-9M		CAS PD-1 DB-25M	
DCD	1	1	
RXD	2	2	
TXD	3	3	
DTR	4	4	
GND	5	5	TXD
DSR	6	6	RXD
RTS	7	7	
CTS	8	8	
		23	SG. GND

NCI 4100

Samsung Port1 or2 DB-9M		NCI 4100 DB-9M	
DCD	1	1	GND
RXD	2	2	
TXD	3	3	TXD
DTR	4	4	
GND	5	5	
DSR	6	6	
RTS	7	7	
CTS	8	8	
		9	RXD

Coin Dispenser

ECR Settings

RS232C Port 1/RS232C Port 2 Options

1. At the **SM** control lock position menu, press **8** for RS232C Port 1 programming or **9** for RS232C Port 2 programming. The appropriate **PORT PROGRAM** screen displays:

```
PORT 1 PROGRAM pg1
BAUD RATE          0←
 0: 9,600   1:1,200
 2: 2,400   3:4,800
 4:19,000
PARITY CHECK       2
0:NONE 1:ODD 2:EVEN
DATA BITS(0:8 1:7)1
```

2. Set the BAUD rate, parity check, and data bits: BAUD=0 (9600), PARITY CHECK=2 (EVEN) and DATA BITS=1 (7).
3. At the DEVICE FUNCTION field, enter 7 for coin dispenser.

```
PORT 1 PROGRAM pg2
STOP BITS(0:1 1:2)0←
DEVICE FUNCTION    7
-----
0:NONE 1:PC   2:SCL
3:RJ   4:RP   5:LT
6:SCAN 7:COIN 8:LIQ
9:POLE
```

4. Press the **ENTER** key to finalize, then press **CLEAR** to return to the **SERVICE MODE** screen.

Cable Configurations

Samsung Port1 or2 DB-9F		Transact2+ Coin Changer RJ-45	
DCD	1	1	
RXD	2	2	
TXD	3	3	
DTR	4	4	
GND	5	5	TxD
DSR	6	6	RxD
RTS	7	7	SG
CTS	8	8	
VCC	9		

Pole Display

ECR Settings

RS232C Port 1/RS232C Port 2 Options

1. At the **SM** control lock position menu, press **8** for RS232C Port 1 programming or **9** for RS232C Port 2 programming. The appropriate **PORT PROGRAM** screen displays:

```
PORT 1 PROGRAM pg1
BAUD RATE          0←
 0: 9,600   1:1,200
 2: 2,400   3:4,800
 4:19,000
PARITY CHECK       0
0:NONE 1:ODD 2:EVEN
DATA BITS(0:8 1:7)0
```

2. Verify the default settings for BAUD rate, parity check, and data bits: BAUD=0 (9600), PARITY CHECK=0 (NONE) and DATA BITS=0 (8).
3. Press **PAGE DOWN** to view page 2 of the RS232C port program. At the **DEVICE FUNCTION** field, enter 9 for pole display.

```
PORT 1 PROGRAM pg2
STOP BITS(0:1 1:2)0←
DEVICE FUNCTION    9
-----
0:NONE 1:PC   2:SCL
3:RJ   4:RP   5:LT
6:SCAN 7:COIN 8:LIQ
9:POLE
```

- Press **PAGE DOWN** until page 8 of the RS232C port program is in view. At the POLE DISPLAY TYPE field, enter 0 for EPSON or 1 for ICD.

```

PORT 1 PROGRAM pg8
POLE DISPLAY TYPE 0←
0:EPSON      1:ICD

```

- Press the **ENTER** key to finalize, then press **CLEAR** to return to the **SERVICE MODE** screen.

Cable Configuration

ICD 2002

650 (COM: 1,2) DB-9 Male		ICD-2002 RS232 DB-9 Male	
DCD	1	1	NC
RXD	2	2	TXD
TXD	3	3	RXD
DTR	4	4	DTR
SG. GND	5	5	SG. GND
DSR	6	6	DSR
RTS	7	7	+Vcc
CTS	8	8	Power Supply
+Vcc	9		(GND)

Manual Revision Record

Edition	Date published	Revision contents
V2.0	05/6/2005	
V2.1	02/13/2006	9520 laser scanner setup added