

SHARP Electronics Corporation

ER-3310/3311 In-Line (IRC) Minimum Set-Up

SRV/PGM Programming

For Master ROM RAW1(ver. A), Slave ROM BAX1(ver. A) in IC Socket 14

Also refer to ER33-MA/33SL Instruction Manual !!!

If ER-33MB Board is installed: Jumper 1 is OFF, Jumper 2 is in position 1.

Skip IC socket # 2 on MB Board if adding RAM chips.

(ONLY Sharp supplied 32k RAM chips will operate properly in the ER-3310/3311)

AT MASTER REGISTER (SLAVE REGISTER ON PAGE 2, BOTTOM)

1. Master Reset 1 SRV Mode: hold down Journal key, plug in power.
2. SRV 902 . @ 1010 CA/AT IRC
- 2a. Go to Page 2, Step 2a if ER-01RP Kitchen Printer and Slip Printer are installed.
3. SRV 910 . @ 0201 CA/AT Display Server No. & set for coded cashiers (PGM 151)
4. SRV 911 . @ 0000 CA/AT Buffered slip print
5. SRV 920 . @ 0002 CA/AT Set register as master
6. SRV 922 . @ 0008 CA/AT Speed 1 Mbps
- 6a. Go to Page 2, Step 6a if ER-01RP is installed.
7. SRV 899 . @ CA/AT Clear in-line RAM (clears IRC Terminal No. & Master List)
(PGM 310, PGM 311)
- (Wait for CLEAR before doing next step!)
8. Service Reset: Unplug power, then plug in.
9. PGM 252 . @ 10 CA/AT Register No. 10
10. PGM 310 . @ 10 CA/AT IRC Terminal No. 10
11. PGM 311 . @ 10 @ 10 #SBTL Master List (of Register No. and Terminal No.)
- 11 @ 11 #SBTL/CA/AT Do not include ER-01RP in Master List.
12. PGM 141 . @ 1 @ 1 #SBTL Server Code
- 2 @ 2 #SBTL/CA/AT Server Code
13. PGM 144 . @ 1 @ SERV 1 #SBTL Server Name
- 2 @ SERV 2 #SBTL/CA/AT Server Name
14. PGM 151 . @ 1 @ 1 #SBTL Cashier Code (SRV 910,D)
- 2 @ 2 #SBTL/CA/AT Cashier Code
15. PGM 154 . @ 1 @ CASHR 1 #SBTL Cashier Name (Alpha programming)
- 2 @ CASHR 2 #SBTL/CA/AT Cashier Name
16. PGM 259 . @ 1 @ 1 #SBTL Cashier Drawer
- 2 @ 1 #SBTL/CA/AT Cashier Drawer
17. PGM 250 . @ MMDDYY CA/AT Date
18. PGM 251 . @ HHMM CA/AT Time (24-hour clock)
- 19 - 23 Go to Page 2, Steps 19-23 if ER-01RP is installed.
- THEN DO PROGRAMMING FOR THE SLAVE REGISTER, PAGE 2 of 2, BOTTOM
24. PGM 490 . @ CA/AT (PGM2) Down-load In-line IRC Presets
25. SRV 800 . @ CA/AT (SRV) Down-load SRV Parameters
26. SRV 850 . @ CA/AT (SRV) ***** Free Key Layout
27. PGM 499 . @ CA/AT (PGM2) ***** All PGM Presets
- Then proceed to OPEN STORE (PGM 500) and SIGN ON coded cashiers.
- Refer to ER-33MA/33SL Instruction Manual!!!

ER-3310/3311 In-Line IRC**If ER-01RP Kitchen Printer and Slip Printer are installed****AT MASTER REGISTER**

- 2a. SRV 902. @ 1230 CA/AT ^{ABCD} IRC/ER-01RP/Slip Printer
 2b. SRV 912. @ 0021 CA/AT Double-size Consec. # on ER-01RP (set DIP Switch 1, Pos. 5 ON [up])
 6a. SRV 918. @ 4070 CA/AT Cbit receipt at Receipt Printer/No Consolidation/Double-size alpha
 19. PGM 207. @ 1 @ 110 #SBTL/CA/AT First ER-01RP is IRC Terminal #1 (Value of DIP Switch #4) and default to printer 10 (receipt)
 20. PGM 208. @ 1 @ KITCHN 1 #SBTL/CA/AT ER-01RP alpha
 21. PGM 218. @ Any Dept. No. @ 1 #SBTL/CA/AT Departments to ER-01RP #1
 22. PGM 228. @ Any PLU NO. @ 1 #SBTL/CA/AT PLUs to ER-01RP #1
 23. PGM 237. @ 60 @ 1 #SBTL/CA/AT Assign CH3 to ER01RP #1
 24. PGM 260. @ 60 @ 1000000010 ^{DEF GHIJKLM} #SBTL/CA/AT Compel Non-add # entry to CH3 and compel AMT. TEND.

THEN DO PROGRAMMING FOR THE SLAVE REGISTER, BELOW**DIP Switch Settings On Bottom Of ER-01RP; 1 = ON, 0 = OFF**

Position:	1	2	3	4	5	6	7	8	
SW 1	0	0	0	0	1	0	0	0	Double-size Consec. #
SW 2	0	1	0	0	0	0	0	0	
SW 3	0	0	0	0	0	0	0	0	
SW 4	1	0	0	0	0	0	0	0	Set ER-01RP as IRC Terminal # 1 (see PGM 207 above, Step 19)
SW 5	0	0	0	0	0	0	0	0	

AT SLAVE REGISTER (Step #s correspond to step #s at Master register)

1. Master Reset 1 SRV Mode; hold down Journal key, plug in power.
2. SRV 902. @ 1010 CA/AT ^{ABCD} IRC
 or SRV 902. @ 1230 CA/AT IRC/ER-01RP/Slip Printer (if these devices are installed)
 6. SRV 920. @ 0001 CA/AT Set register as slave
 7. SRV 922. @ 0008 CA/AT Speed 1 Mbps
 8. SRV 899. @ CA/AT Clear in-line RAM (clears IRC terminal #, PGM 310)
 (Wait for in-line to CLEAR!)
9. Service Reset; Unplug power, then plug in.
10. PGM 252. @ 11 CA/AT Register No. 11
 11. PGM 310. @ 11 CA/AT IRC Terminal No. 11
- GOTO STEP 24 AT MASTER REGISTER PROGRAMMING, PAGE 1, FOR DOWNLOAD PROCEDURES.**

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ER-3310/ER-3311 RS-232C COMMUNICATIONS MINIMUM SET-UP SRV/PGM PROGRAMMING

REQUIRES ROM CHIP RAY1 (VER.A) AND EITHER ER-33RS OR ER-33RI BOARD.
* * *

ROM chip RAY1 (ver. A) REPLACES standalone ROM chip RAV1 (ver. A) in IC socket 13 on main PWB.

A. System 1, Communication to ER-02RP Kitchen Printer.

1. Specifications. RS-232C, simplex, direct connect, 1200bps, asynchronous, vertical odd parity check, 8-bit code (1 start bit, 8 data bits, 1 parity bit, 1 stop bit), LSB first.
2. Pin configuration for RS-232C D-sub 25-pin connector to ER-02RP see Figure 1.

ER-3310/11	Pin		Pin	ER-02RP
Send Data	SD 2	→	3 RD	Receive Data
Data Set Ready	DR 6	→	10 PE	Paper End
Clear To Send	CS 5	→	20 BUSY	
Carrier Detect	CD 8	→	12 FAULT	Motor Lock
Frame Ground	FG 1	→	1 FG	Frame Ground
Signal Ground	SG 7	→	7 SG	

Figure 1 - 25-Pin Connector to ER-02RP

3. Must use interface port #2 on ER-33RI or ER-33RS board for connection to ER-02RP Kitchen Printer.
- 3a. DIP switch settings for 1200bps must be set both on ER-33RI or ER-33RS board and at bottom of ER-02RP.

4. SRV 902 . @ 2110 CA/AT

5. PGM 207 . @ 1 @ 110 #/SBTL CA/AT

PGM 218 . @ Any Dept. No. @ 1#/SBTL/CA/AT

PGM 228 . @ Any PLU No. @ 1 #/SBTL/CA/AT

PGM 237 . @ Function 60 @ 1#/SBTL CA/AT

RS-232C/ER-02RP.

Assign K.P. #1 and default to receipt printer 10

Assign to Kitchen Printer 1

Assign to Kitchen Printer 1

Assign CH3 to K.P. 1

PGM 260 . @ 60 @ 1000000000 #/SBTL CA/AT

PGM 380 . @ 1 CA/AT

Compel Non-add # entry to CH3
Enable transmission to ER-02RP

I.R.C. SYSTEM PRINTER SETUP

ER-03RP DOUBLE SIZE CHARACTER PRINT FOR ER-3310/11

	1	2	3	4	5	6	7	8
SW 1	1	0	1	1	0	0	0	0
SW 2	1	1	1	1	1	1	0	0
SW 3	(SETS TERMINAL NUMBER SEE BELOW)							

* NOTE: THE ER-3310/11 DOUBLE SIZE CHARACTER PRINT
IS CONTROLLED BY JOB CODE # 912 & 918.

ER-03 TERMINAL NUMBER (SW 3)

DIP #	1	2	3	4	5	6	7	8	9
1	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	1	1
4	0	0	0	0	0	0	1	0	0
5	0	0	0	0	0	0	1	0	1
6	0	0	0	0	0	0	1	1	0
7	0	0	0	0	0	0	1	1	1
8	0	0	0	0	0	1	0	0	0
9	0	0	0	0	0	1	0	0	1

TERM #

FOR TERMINAL #1 00000001