

SHARP.

Stay in line !
with the
ER-A550 In-line
options and peripherals
guide

OVERVIEW

The ER-A550 model ECR offers the Authorized Sharp Dealer the capability to connect multiple ER-A550 series ECRs together through cables to execute the following jobs;

- 1) Batch consolidation of sales data between ECRs.
- 2) Preset data downloading between the master ECR and the satellites.

ER-A550 IRC Options requirements:

- * **ER-A55R1 (installed in I.C. socket # 4)**
Is the control ROM required when the (ER-A5IN and/or ER-A5RS) are installed.
- * **ER-A5IN**
Has three (3) ports defined as follows;
 - 2 ports are used for In/out IRC communications. (DB-9 pin female type)
 - 1 port can be used for RS-232 type communication (DB-9 pin male type)
- * **ER-01RA (32k) or ER-02RA (128k) (installed in I.C. socket # 6)**

The amount of ram is determined by the individual file size requirements. (ie, Dept., PLU, etc.)

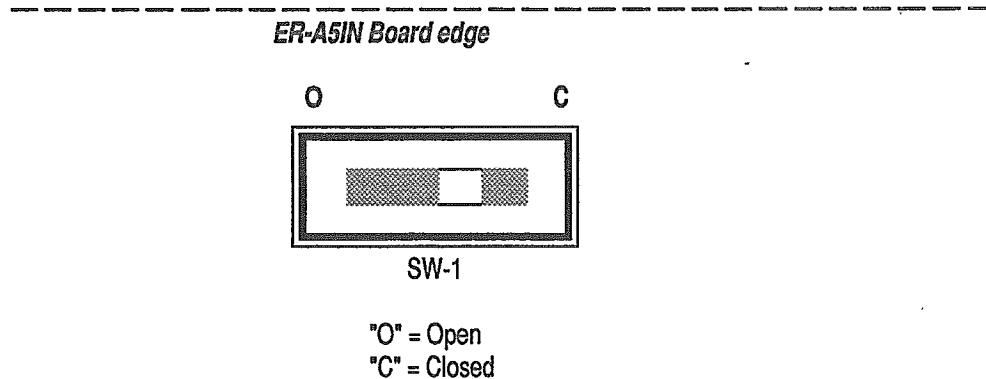
IRC terminator assignment

Although you are capable of connecting up to 16 ER-A550's together via the IRC option, care should be taken to insure that the end terminals have the terminating switches located on the ER-A5IN board in the "closed" position and that all terminals between have the terminating switches in the open position.

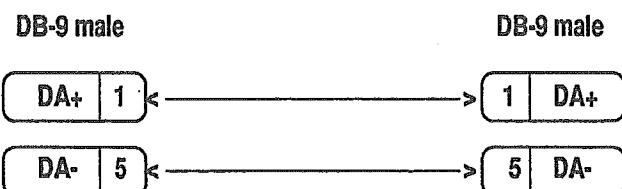
IRC specs:

- *Transmission method:* RS485 start-stop two wire system.
Half-duplex transmission.
- *Transmission speeds:* 38400 / 9600 bps. (selectable)
- *Transmission wiring:* Twisted pair, shielded cable. (Belden model #9682)
- *External connector:* D-sub 9 pin male type.
- *Connector housing:* Shielded type.
- *Maximum distance:* 600 meters.

Terminating Switch arrangement:



IRC wire pin-out for connection between ECRs:



IRC application principles

- 1) Down-loading of all the SRV mode preset data from the master into the satellites (except for memory allocation).
Only those presets that will cause a conflict for the system control in down-loading are not down-loaded.
- 2) Down-loading of the PGM mode preset data from the master into the satellites.
 - A) Down-loading for each individual job which preset data can be read by the ER-A550 series ECR. (example: Department, PLUs etc.)
 - B) Down-loading of the preset date and time.
 - C) Down-loading of the inline-related preset data needed by the satellite.
 - D) Collective down-loading of all the data preset by PGM-mode programming.
- 3) Sales data collection at the master (OP X/Z, X1/Z1, and X2/Z2 modes).
 - * Sales data for an individual satellite or all the satellites can be consolidated.
 - * Data is collected for each job of which sales data can be read/reset at the ER-A550 series ECR.
 - A) For the X reports, consolidated data is printed by the receipt/journal printer.
 - B) For the Z reports, data is printed out by the receipt/journal printer, and the sales memory of each satellite is then cleared.
 - C) For the daily total and periodic total General X/Z report, a selection can be made among (1) The system that prints out the report of the master and each satellite individually, (2) the system that prints out just the consolidated data, and (3) the system which prints out the consolidated report after printing the report of the master and each satellite individually.
- 4) Sales data can be read and reset at individual machines.
 - * Every reading and resetting operation that the ER-A550 offers is allowed.

IRC application principles

When the system has no save files:

- A) Issuing the daily total/periodic total General Z report, Hourly report, or Daily Net report locks the satellite and disables entries to be made in REG mode.
- B) Issuing the daily individual Cashier Z report locks the cashier concerned and disables the cashier concerned from making entries in REG mode.
- C) It can be programmed in the SRV mode whether the satellite and/or cashier should be locked or not.
- D) The satellite/cashier is unlocked by a system Z report issuing at the master or by sales memory manual clearing at the satellite.

When the system has the save file:

- A) When an individual Z report is issuing, not only an ordinary Z report is issued, but the data is also placed in the individual resetting memory and the daily/periodic sales memory is cleared.
- B) An individual Z report can be issued at any time and the daily sales memory and individual resetting memory are cleared after the Z report on the entire system has been issued.

5) Preset data look-up and Sales data collection.

- A) Preset data look-up.
 - Each satellite has all preset data and looks up the preset data of its own memory when an entry is made.
- B) Sales data collection.
 - All sales data can be consolidated for each individual satellite. Specified key operation at the master causes the consolidation of the sales data of each satellite (batch consolidation) and to print a consolidation report.

IRC application principles

6) Manager Retry function.

If a transmission error occurs during preset data down-loading or sales data collection, the down-loading/data collecting job operation is not instantly terminated. The machine is put in a Key Entry waiting state which allows the operator to **Retry** the job operation (1), to **Accept** the so far received data (2), or to **Cancel** the job operation (3) by a selection with the specified Key operation.

Programming principles

This document is designed and written to help you learn the SRV and PGM mode presets associated to the IRC features of the ER-A550. Please read the following pages which include extensive cross references between the SRV and PGM mode jobs.

SRV mode

The service mode procedures with each IRC option section are listed in "bullet" statement fashion and relate directly to the option being discussed. For a complete detailed explanation of all the SRV mode job options, please refer to the ER-A550 SRV Mode Sales Training Manual.

PGM mode

The PGM mode jobs are 4-digit jobs that are performed in the PGM-2 mode position. You can not enter PGM-2 jobs while the mode key is in the PGM-1 position.

Except where otherwise noted, the programming entry sequence is the same as that of previous Sharp ECRs. When entering the option selections for PGM jobs, it is necessary to enter trailing zeroes to obtain the correct settings.

The PGM mode section of this document is detailed and should provide you the necessary information to successfully install and operate the IRC communications available for the ER-A550 model ECR. You should refer to the standard operations manual for further details regarding the standard PGM job selections for the ER-A550.

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Overview

IRC system

1) The ER-A550 series IRC system.

Is available in two types:

(1) one has the save files created, and (2) the others do not.

Both of these operating systems have the consolidation file and receive files at the master.

2) Consolidation procedures for the master.

The master consolidates sales data with the following procedures:

- A) The master requests one satellite for sales data sending for collection.
- B) The satellite puts itself into the WAIT state ("CC 1" is displayed) and sends the requested data to the master. Upon completion, the satellite prints on the journal a message that it has sent the requested data and the data sent is cleared.
- C) Upon receiving the data from the satellite, the master saves and consolidates the data in its consolidation file.
- D) After one satellite sales data collection is completed, the master requests the next satellite for sales data sending and the above procedure is repeated for every satellite listed in the master's polling list.
- E) The master prints out the data in the consolidation file.

3) System Resetting.

- A) For system resetting, individual cashier(s) or all the cashiers can be specified.
- B) When the system has the save file, the data in the save memory and that in the sales memory are summed-up for consolidation.
- C) Cashier data does not consolidate together, instead each machine's cashier data is printed.

Overview

IRC system

4) **System Reading.**

- A) Cashiers can individually be picked up at the individual satellite or all the cashiers can be specified for reading of sales data. For system reading, any of the satellites can also be specified.
- B) The data in the sales memory is added in the case of system reading.
- C) Cashier data does not consolidate together, instead each machine's cashier data is printed.

5) **Others.**

- A) A satellite machine is permitted to send its sales data to the master only when it is idle. (i.e. when it is not engaged in any operation)
- B) If a transmission error occurs, the register number of the satellite related to the error is printed. The Manager Retry function is then enabled to work.
- C) When a transmission is completed, the master prints out the consolidated data and the satellite prints that indication on its own journal.

Overview

IRC errors

1) Types and causes of IRC transmission errors.

A) Types.

The transmission errors are roughly divided into the following three (3) types:

- 1) Power-off error.
- 2) Busy error.
- 3) Line error.

B) Causes.

1) Power-off error; (error text = "POWER OFF")

This error refers to the command unusual error, re-send error, or a time-out that has occurred where ID-ENQ is sent.

- A) The mating terminal is in the power-off state.
- B) A terminal and its mating terminal are not connected to each other through cabling.
- C) The mating terminal is in the Offline mode. (its terminal number equals "00")
- D) The satellite is not programmed to use the IRC option.

2) Busy error; (error text = "IRC BUSY")

- A) The satellite is engaged in some operation that leaves it in a state as the ID-ENQ cannot be received.

3) Line error; (error text = "IRC ERROR")

- A) Any error that occurs during transmission:
 - Retry over.
 - Power-off.
 - Break detection.
 - Time-out.

Overview

IRC errors

2) Types and causes of IRC application errors.

A) Types.

The application error is an error that occurs when the satellite cannot send data for the reason of it's own such as improper programming. There are the following application errors:

- 1) Memory overflow error.
- 2) Transaction non-reset error.
- 3) Dept., PLU, Hourly, and Transaction non-reset error.

B) Causes.

1) Memory overflow error; (error text = "MEMORY FULL")

This error refers to the satellite's memory allocation when the applicable program data is down-loaded.

2) Transaction data non-reset error; (error text = "NON RESET")

A) When the individual General Z resetting is not executed in a satellite when the master attempts an IRC consolidated General resetting report. (SRV 924 only)

B) When the individual General Z resetting is not executed in a satellite when the master attempts an IRC job # 199.

3) Dept., PLU, Hourly, or Trans. non-reset error; (error text = "NON RESET")

A) Department program data is down-loaded (PGM job #4100) when the satellite still has department sales data.

B) PLU program data is down-loaded (PGM job #4200) when the satellite still has PLU sales data.

C) Other program data is down-loaded (PGM job #4600) when the satellite still has hourly sales data.

D) Transaction program data is down-loaded (PGM job #4300) when the satellite still has transaction sales data.

Programming

SRV mode

902-A	- Simple IRC option installed	yes/no	1/0
920-C	- PGM mode programming allowed at the satellite	yes/no	1/0
920-D	- The register is a	Master = 2 Satellite = 1 Standalone = 0	
922-D	- Simple IRC baud rate is	9600 bps / 38.4 Kbps	1/0
924-A	- PLU save file exists	yes/no	1/0
924-B	- All other save files exist	yes/no	4/0
924-C	Lock REG mode after Daily individual reset when there are no save files - After cashier resetting - After hourly resetting - After General resetting	no/yes no/yes no/yes	4/0 2/0 1/0
924-D	Lock REG mode after Periodic reset when there are no save files - After cashier resetting - After daily net resetting - After General resetting	no/yes no/yes no/yes	4/0 2/0 1/0
925-A	Selection type of general resetting consolidation for the master - Only those data that has been individually reset is reset - The data that has been individually reset and the current sales data together - Clearing of the individual resetting memory upon the execution of the general resetting report - Allow execution of PGM job #199 when the consolidated general resetting has not been performed	= 4 = 0 no/yes	2/0 1/0

Programming

SRV mode

925-B	- All key operations are inhibited after the consolidated general resetting until PGM job #199 has been executed	no/yes 2/0
	- Individual resetting is allowed at the satellite	yes/no 1/0
925-C	Consolidated general resetting report print format	
	- Individual reports from each machine only	= 2
	- System consolidated report only	= 1
	- Individual machine and system consolidated report together	= 0
925-D	- Not used	

971 Memory file allocation for IRC

In the ER-A550 series ECR, upon the SRV mode selections of SRV job #902, #920, and job #924, the ER-A550 will automatically create and allocate the necessary files relative to the master and satellites when executing the SRV job #899 or #895 (Inline memory clear). Keeping this in mind, it will be a minimum requirement to perform SRV job #899 and a SRV ("Loop") reset if there are any changes made in SRV job(s) #920 or #924 and keeping IRC as the configuration. The ER-A550 that is selected as a master will require more memory than the ER-A550 selected as a satellite. Listed on the following page is the IRC type files created upon the execution of SRV job #899 or #895 at a master and satellite.

Programming

971 Memory file allocation for IRC

Master

Consolidation type:

Department	File table #8
Transaction	File table #24
Hourly	File table #42
Daily Net	File table #46 & #47
PLU	File table #16

Save type: (*)

Department	File table #7
Transaction	File table #23
Hourly	File table #41
PLU	File table #15
Cashier Trans.	File table #35

Satellite

Save type:

Department	File table #7
Transaction	File table #23
Hourly	File table #41
PLU	File table #15
Cashier Trans.	File table #35

Receive type:

Department	File table #9
Transaction	File table #25
Hourly	File table #43
Daily Net	File table #48 & #49
PLU	File table #17
Cashier Trans.	File table #29, #30, & #31
Cashier Preset	File table #36

(*) "Save" type files are created only when SRV job #924 is selected to do so.

The above IRC related files are created to the size of the "parent" file when memory is present. If an error occurs upon executing SRV job #899 or #895, then it will be necessary to add additional Ram or adjust the size of the "parent" file to allow enough Ram space to create the related IRC files.

Programming

Inline Ram clear in SRV mode

899

899 → → @/FOR → CA/AT

Details:

- 1) Checks the setting in SRV job(s) #902 , #920 and #924 to determine which IRC related files are to be created.
- 2) The Save, Receive, and Consolidation files are created in memory for the master.
- 3) The Save type memory file is created for the satellite depending on SRV job #924.
- 4) A SRV ("Loop") reset is mandatory after the execution of SRV job #899.

Programming

In-line reset

898

898 → → @/FOR → CA/AT

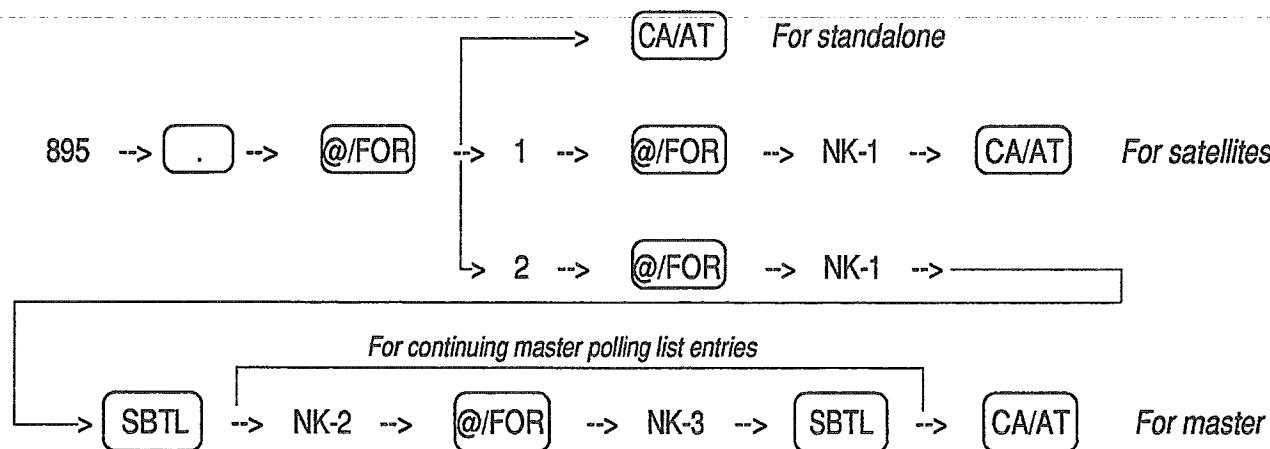
Details:

- 1) This operation clears only the IRC "work" memory concerning the inline system.
- 2) This job can be executed at all terminals.
- 3) The inline preset memory is retained.
- 4) Successive inline communication is also allowed.

Programming

One-Step IRC set-up

895



NK-1 = Own terminal number.

NK-2 = Terminal number of each ER-A550 in the system. (001 to 254)

NK-3 = Corresponding machine number. (000001 to 999999)

Details:

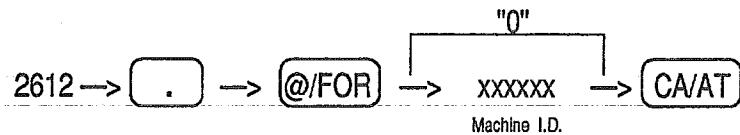
- 1) For the standalone, the ECR is changed from inline ECR to standalone ECR. SRV #902-A is set to a "0" and SRV job #920-D is set to a "0". The previously created IRC files in memory will remain resident.
- 2) For the satellite, SRV job #902-A is set to a "1", SRV job #920-D is set to a "1", SRV job #899 is executed, and PGM job 3610 is set. All related IRC files are created so long as memory is available.
- 3) For the master, SRV job #902-A is set to a "1", SRV job #920 is set to a "2", SRV job #899 is executed, PGM job #3610 is set, PGM job # 3611 is programmed, and PGM job #4900 is performed.
- 4) The satellite should be set-up first because of the master's execution of PGM job #4900.
- 5) A SRV reset should be performed at all registers because of memory allocation and IRC presets.

Programming

PGM mode reference

Job #	Description
2612	- Machine number setting.
3610	- Terminal number assignment.
3611	- Master's polling list assignment.
3612	- Terminal deletion from the master's polling list.
3631	- Enabling the Manager Retry function.
3610	- IRC preset reading.

Programming

2612 (MA/SL)**MACHINE NUMBER ASSIGNMENT**

xxxxxx: Machine number (01 to 999999 max.)

MRS = 000000

Programming

3610 (MA/SL)

TERMINAL NUMBER ASSIGNMENT



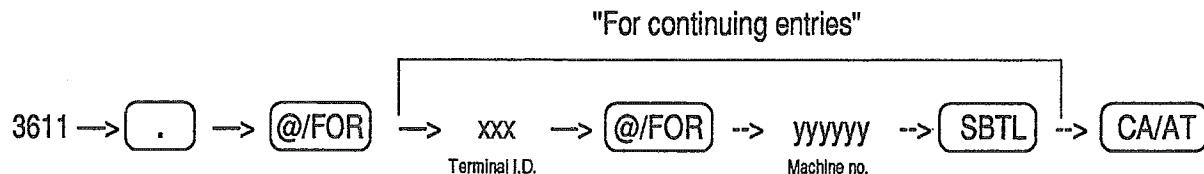
xxx: Terminal number (01 to 254 max)

MRS = 0

Details:

- 1) This programming is intended to determine the terminal number of each machine for IRC communications.
- 2) If the terminal number is programmed for "0", the machine is set to the OFF-LINE mode and it's inline communication function is disabled.
- 3) If two or more machines are assigned with the same terminal number on a single IRC network, correct communication is not assured.
- 4) The terminal number and the register number are independent of each other, but they correspond to each other.
- 5) The terminal number assignment must be 254 or smaller. Entry of 255 or higher will result in a "Lock" error.
- 6) Pressing the CA/AT key prints the programmed terminal number on the receipt and journal printer.

Programming

3611(MA)**MASTER POLLING LIST**

xxx: Terminal number (01 to 254 max.)

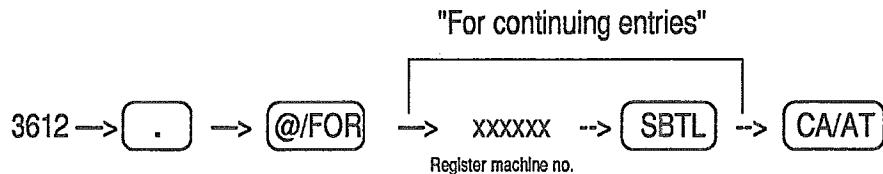
yyyyy: Machine number (01 to 999999 max.)

MRS = none

Details:

- 1) This programming is intended to determine the register machine number of each satellite to communicate with the master together with the corresponding terminal number. The register machine number and terminal number of the master must also be set in the polling list.
- 2) This programming can set the register numbers and terminal numbers of a maximum of 16 machines. (1 master and 15 satellites)
- 3) No satellite can perform IRC communications unless it's terminal number and register number are set in the master polling list.
- 4) If the terminal number of larger than 254 or a register number exceeding 6 digits is entered, a lock error will occur.
- 5) When the register number that already exists in the master list is entered, a lock error will occur even if the corresponding terminal number does not exist in the master list.
- 6) If a pair of terminal and register numbers that already exist in the master list are entered, no error will result.
- 7) Pressing the **SBTL** key prints the programmed terminal numbers and register numbers on the receipt and journal printer. Pressing the **CA/AT** key issues the receipt.

Programming

3612 (MA)**DELETION FROM THE MASTER POLLING LIST**

xxxxxx: Register machine number (01 to 999999 max.)

MRS = none

Details:

- 1) This programming is intended to delete a terminal from the master's polling list.
- 2) Entering a register machine number exceeding 999999 will result in a lock error.
- 3) Entering a register number that does not exist will result in a lock error.
- 4) Pressing the **SBTL** key prints the deleted register numbers on the receipt and journal printer. Pressing the **CA/AT** key issues the receipt.

Programming

3631 (MA)**MANAGER RETRY FUNCTION**

x = 0: The Manager Retry function is enabled

x = 1: The Manager Retry function is disabled

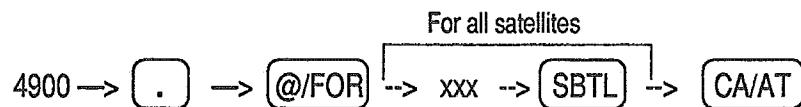
MRS = 0

Details:

- 1) When the Manager Retry function is disabled, the IRC job is finalized immediately when a satellite fails to send data correctly.
- 2) When the Manager Retry function is enabled, the IRC job is not finalized when a satellite does not send data correctly and causes the master to wait for a key entry in order for its operator to be able to select the job retry "yes", or "no" with a specified key operation.

3610**IRC PRESET READING**

Programming

4900 (MA)**DOWN-LOAD OF IRC PRESETS****Details:**

- 1) Any time there is a change with the IRC related 300 series program jobs, this job must be executed.
- 2) Entering a specific terminal number is allowed.
- 3) Entering a register machine number that does not exist will result in a lock error.
- 4) This PGM job is a good tool to determine the status of any satellite prepared for in-line communication.

Programming

IRC Down-load list from the Master

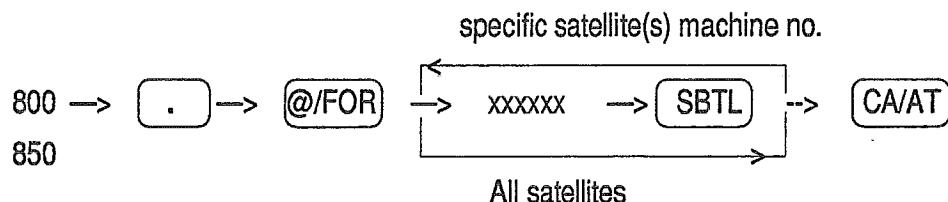
Mode	Job #	Description
SRV	800	- SRV mode parameters.
	850	- SRV mode key layout.
PGM	4100	- Department presets. *1
	4119	- Direct Dept. and PLU key assignments.
	4200	- PLU / Link / Menu Set presets. *1
	4220	- Link PLU presets. *1
	4221	- Menu-set PLU presets. *1
	4300	- Transaction presets. *1
	4500	- Cashier presets. *1
	4600	- "Other" presets. *1, *2
	4610	- Date and Time presets.
	4614	- Logo text presets.
	4700	- Tax presets.
	4800	- Remote printer, and other RS-232 function presets
	4900	- Initialization of IRC presets.
	4999	- All PGM mode presets. *3
	5100	- Copy Department presets.
	5200	- Copy PLU presets.
	5220	- Copy Link PLU presets.
	5221	- Copy Menu-set PLU presets.
	5300	- Copy Transaction presets.

*1 With the Clearing function and requires that the related Daily sales totals be reset prior to execution of the PGM job.

*2 Includes optional feature presets, VP preset, Till timer, Scale Tare table presets, Hourly report format preset, Stack report preset, Secret code for PGM-1, X1/Z1, X2/Z2, Auto key presets, and PLU level range presets.

*3 With the Clearing function and will not check for Daily sales data at a satellite.

Programming

800/850 (MA)**SRV MODE DOWN-LOADING**

xxxxxx = Individual satellite machine no.

800 = Specific SRV mode jobs 901 thru 946
850 = SRV mode jobs 950 and 951

Mode position = SRV (7 O'clock)

Details:

- 1) Memory file allocation can not be down-loaded.
- 2) Only those SRV mode presets that do not cause a conflict with the system configuration will be downloaded to a satellite.
- 3) SRV presets not included in the SRV 800 download are:
 - SRV 902-A
 - SRV 920-D
 - SRV 930 thru SRV 946

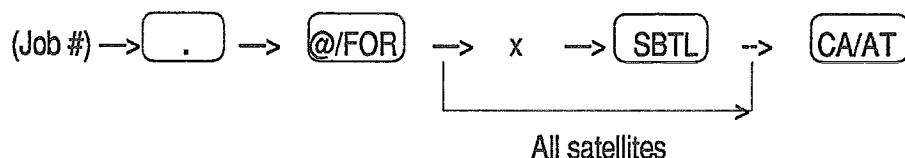
Programming

4000'S/5000'S (MA)**PGM MODE DOWN-LOADING**

Departments / PLUs

Method-1: (All items)

specific satellite(s)



4000 series jobs = Down-loading of data with the clearing function.
5000 series jobs = Down-loading of data without the clearing function.

x = individual satellite(s) machine number

Mode position = PGM-2

Details:

- 1) Memory file allocation for the number of departments and PLUs must be the same between the master and satellite(s).
- 2) 4100 and 4200 jobs will not update satellites where daily totals have not been reset.
- 3) 4000 series jobs will clear "term" related totals for departments at the satellites.
- 4) 5000 series jobs do not affect the satellite's sales totals.

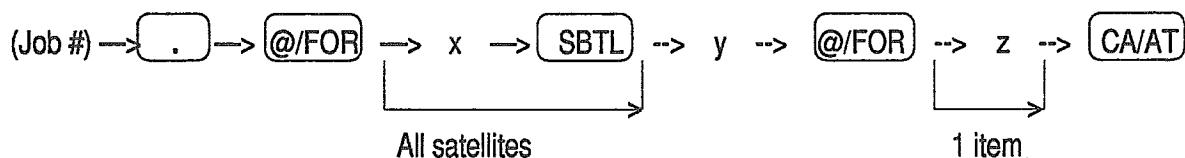
Programming

4000'S/5000'S (MA)**PGM MODE DOWN-LOADING**

Departments / PLUs

Method-2: (Range of items)

specific satellite(s)



4000 series jobs = Down-loading of data with the clearing function.
5000 series jobs = Down-loading of data without the clearing function.

x = Specific satellite machine numbers with in the master's polling list.

y = Start code (Department 1-99 or PLU 1-9999)

z = End code (Department 1-99 or PLU 1-9999)

Mode position = PGM-2

Details:

- 1) Memory file allocation for the number of departments and PLUs must be the same between the master and satellite(s).
- 2) When using the 4000 series job numbers, only those items between the input range will be valid at the satellite(s).
- 3) When using the 5000 series job numbers, only those items between the input range will be updated.

Programming

4000'S/5000'S (MA)**PGM MODE DOWN-LOADING**

"Other" programming

Method-1: (All satellites)

(Job #) → → @/FOR → CA/AT

4000 series jobs = Down-loading of data with the clearing function.
5000 series jobs = Down-loading of data without the clearing function.

Mode position = PGM-2

Details:

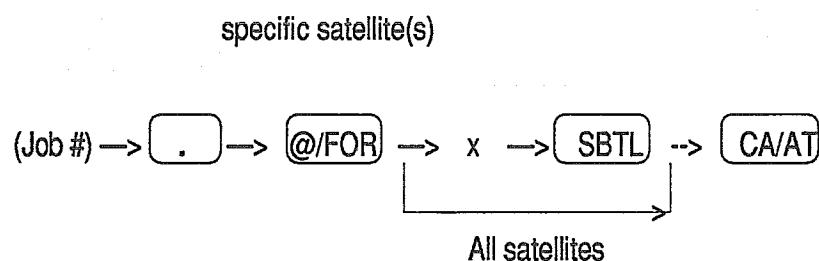
- 1) 4300, 4500, 4600 can not be performed where applicable daily totals exist at the satellite(s).
- 3) 4000 series jobs will clear "term" related totals.
- 3) 5000 series jobs do not affect the satellite's sales totals.

Programming

4000'S/5000'S (MA)**PGM MODE DOWN-LOADING**

"Other" programming

Method-2: (Specified satellites)



4000 series jobs = Down-loading of data with the clearing function.
5000 series jobs = Down-loading of data without the clearing function.

x = Specific satellite machine numbers with in the master's polling list.
y = Start code (Department 1-99 or PLU 1-9999)
z = End code (Department 1-99 or PLU 1-9999)

Mode position = PGM-2

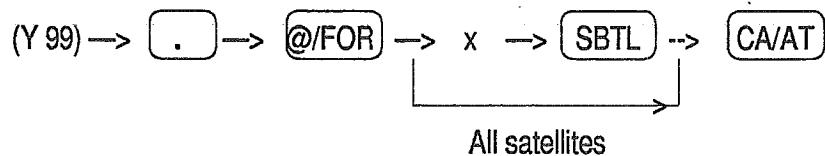
Details:

- 1) Memory file allocation for the number of departments and PLUs must be the same between the master and satellite(s).
- 2) When using the 4000 series job numbers, only those items between the input range will be valid at the satellite(s).
- 3) When using the 5000 series job numbers, only those items between the input range will be updated.

Memory clearing

Y99 (MA)**RESET CLEARING COMMAND****Method: (Specified satellites)**

specific satellite(s)



Y = "1" for Z-1 Daily sales totals.
"2" for Z-2 Term sales totals.

Mode position = X1/Z1 and X2/Z2

Details:

- 1) When the system has no "save" file, this command unlocks the satellite locked by individual resetting and clears the full items memory that caused the satellite to be locked.
- 2) Depending on the SRV job #925 when the system has "save" files, this job is used to clear the locked state and clears the "save" memory.

Memory clearing

5000'S (MA/SL)**SALES DATA CLEARING COMMAND****Method:**

(Job #) → → @/FOR → CA/AT

Mode position = PGM-2

Jobs:

- 1) All-item (department, transaction, and other) sales data memory is job # 5990.
- 2) Cashier sales data memory is job # 5995.
- 3) Hourly sales data memory is job # 5996.
- 4) Daily Net sales data memory is job # 5997.

Details:

- 1) The above mentioned jobs are performed at each individual terminal in the system.
- 2) As a measure against trouble, each terminal is provided with the above mentioned jobs.
- 3) Can be used in the event the master terminal breaks down.
- 4) All related sales data is reset.

Message Display

The ER-A550 does not blink any status lamps while performing inline communications. Instead the following messages will be displayed.

1) Register no. indication:

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

The master indicates the register no. of the satellite in transmission.

2) Satellite status:

0 1 2 3 4 5 6 7 8 9 0
C C 1

The satellite indicates that it is engaged in an IRC transmission.

3) Manager Retry indication:

0 1 2 3 4 5 6 7 8 9 0
E E E - 4 1 0 0

The message display at the master executing a Manager Retry function.

—> Indicates the transmission job #.

—> Indicates the master is retrying.

4) REG mode lock display:

0 1 2 3 4 5 6 7 8 9 0
E 1 9

Indicates REG mode lock with exception to individual cashier lock.

5) Individual Cashier lock:

0 1 2 3 4 5 6 7 8 9 0
E 2 3

Indicates a REG mode lock due to an individual cashier is locked.

IRC Reports

	Mode *1								
	OP X/Z		X1 / Z1		X2 / Z2		*3	Job no.	Note
	X	Z	X1	Z1	X2	Z2			
Report name									
General			0	0	0	0	?05		
Dept. Group			0		0		?15		
Ind. Group			0		0		?17	Group no.	
Group total			0		0		?18		
PLU *2			0	0			?25	Range can be used	
PLU by Dept.			0				?26	Dept. code	
Transaction			0		0		?35		
C.I.D.			0				?36	Listed by Cashier	
All Cashier			0	0	0	0	?55		
Ind. Cashier	0	0	0	0	0	0	?56	Cashier no.	
Hourly (All)			0	0			?65		
Hourly (Range) *2			0				?65	Time interval range	
Daily Net					0	0	?75		
Stacked Report			0	0	0	0	?90		

*1 X-1: Daily "X" report, Z-1: Daily "Z" report, X-2: Term "X" report, Z-2: Term "Z" report.

*2 The Time interval and PLU ranges can be specified by the entry of a start no. and an ending no. When specifying a single item, only the start no. is required.

*3 For Daily resetting then "?" will equal a "1".

For Term resetting then "?" will equal a "2".