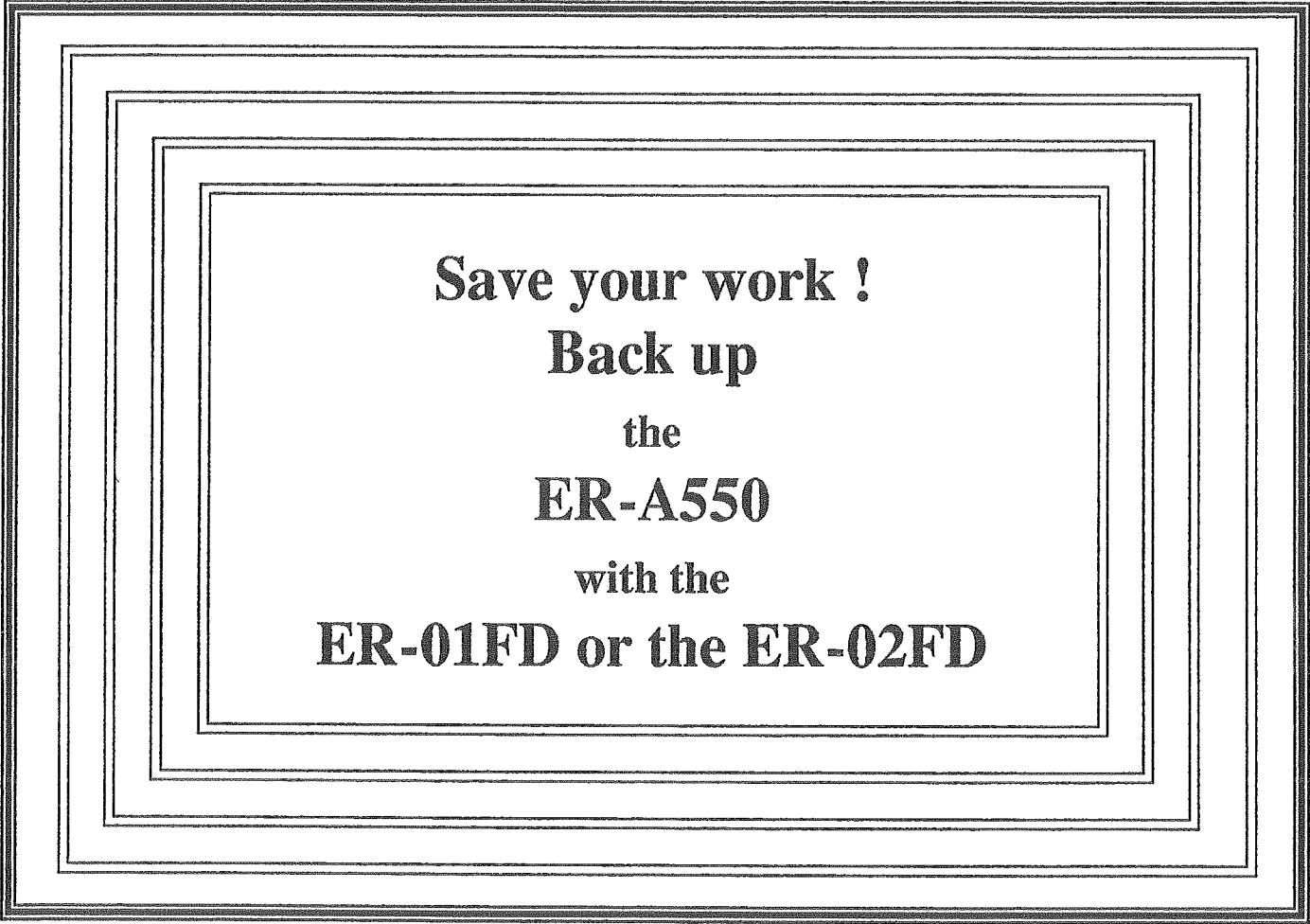


SHARP.



**Save your work !
Back up
the
ER-A550
with the
ER-01FD or the ER-02FD**

Table of Contents

1)	ER-01FD and ER-02FD dipswitch settings	Page-1
2)	ER-01FD and ER-02FD physical description	Page-1
3)	ER-01FD and ER-02FD error status descriptions	Page-2
4)	Formatting using the ER-01FD	Page-3
5)	Formatting using the ER-02FD	Page-4
6)	Sending the program from the ECR	Page-5
7)	Receiving the program at the ECR	Page-6
8)	Copying the program from ER-A550 to ER-A550	Page-7

ER-01FD and the ER-02FD SWITCH SETTINGS

The loading of the ER-A550 program can be performed using the ER-01FD or the ER-02FD. The dip switch settings for both units are listed below.

Dipswitch settings for the ER-01FD:

DS-1

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

DS-2

1	2	3	4
OFF	OFF	OFF	OFF

Dipswitch settings for the ER-02FD:

DS-1

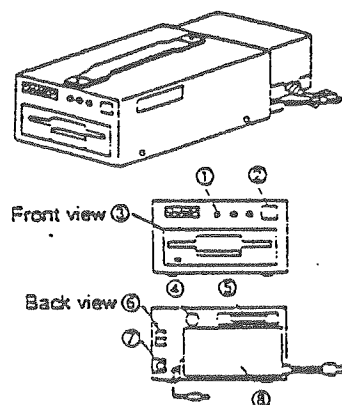
1	2	3	4	5	6	7	8
OFF	ON	OFF	ON	ON	OFF	ON	OFF

DS-2

1	2	3	4
OFF	OFF	OFF	OFF

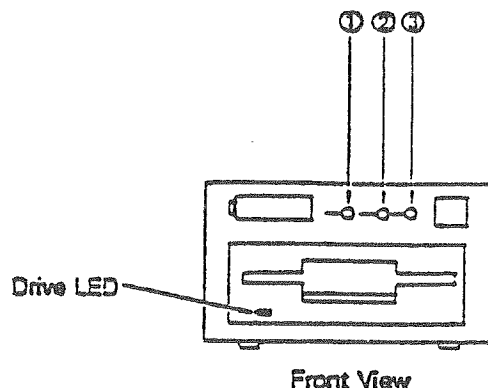
Note: The above settings are necessary to allow generic usage of the 3 1/2" floppy diskettes between the ER-01FD and ER-02FD units.

ER-02 FD physical description:



- ① POWER LED
ON when the ER-01/02FD power is on.
- ② SEND key
Used to start data transfer between the ER-01/02FD and the ECR.
- ③ 3.5" FD
- ④ Serial interface connector (TTL level)
- ⑤ Serial interface connector (RS-232C level)
- ⑥ POWER switch
- ⑦ AC adapter jack
- ⑧ AC adapter

ER- 01FD and ER-02FD ERROR STATUS DESCRIPTIONS



	Type LED	Condition	State of the floppy disk drive
(1)	Power LED	The LED lights up	The power of the ER-01/02FD is on.
	Drive LED	The LED lights up	The drive is operating. (reading, writing, or formatting)
(2)	FD LED	The LED lights up	A read/write error has occurred.
		The LED blinks	The format type of the floppy disk set in the drive is different from the programmed one.
			The disk set in the drive is write protected.
			(In the ER-02FD mode only) - There is no files to read. - A specified file to be read or written doesn't exist. - The volume of the data stored in a file to be written is greater than the remaining capacity of the floppy disk.
			The attribute of a file to be written or deleted is "Read only" (PC-DOS and MS-DOS only).
(3)	TR LED	The LED lights up	- Time-out error. - The power at the ECR is off. - The cable is not connected. - Any unusual occurrence.
		The LED blinks (1)	The transmission parameters of the ER-02FD and the ECR are different.
		The LED blinks (2)	The TR LED blinks each time one frame of data (128k) is outputted to/from the ER-02FD.
(2) & (3)	FD & TR LEDs	LEDs light up together	The program does not function correctly when the power is turned on. (ROM check error)
		LEDs blink together	Floppy disk is not in the drive.
		LEDs blink alternately	The ER-01/02FD is waiting for the SEND key to be operated. (format mode)

FORMATTING THE 3 1/2" FLOPPY**Using the ER-01FD:**

Step-1: Set the dip switches to the ER-01FD unit as indicated on page (1).

Step-2: Power up the ER-01FD while pressing and holding the "Send" button, then release the "Send" button.

(both the FD and T/R indicators will flash)

Step-3: Insert a Double-sided, Double density 3 1/2" floppy diskette.

(the FD and T/R indicators will flash alternately)

Step-4: Press and hold the "Send" button a second time for approximately 3 to 4 seconds until the green drive light comes on.

(the FD indicator will continue to blink)

Step-5: After approximately 5 to 8 minutes, if there are no errors, then all indicators with the exception of the "power" indicator will be off.

Step-6: Press the diskette eject button.

(both the FD and T/R indicators will flash)

Note: *If there are more diskettes to be formatted, then repeat steps 2 through 5.*

Step-7: Power off the ER-01FD unit prior to any further use.

Note: *If there are any errors during formatting, then the FD indicator come on after the green drive indicator goes off. You must repeat steps 2 through 5 if there are any errors.*

FORMATTING THE 3 1/2" FLOPPY**Using the ER-02FD:**

- Step-1: Set the dip switches to the ER-02FD unit as indicated on page (1).
- Step-2: Power up the ER-02FD while pressing and holding the "Send" button, then release the "Send" button.
(both the FD and T/R indicators will flash)
- Step-3: Insert a Double-sided, Double density 3 1/2" floppy diskette.
(the FD and T/R indicators will flash alternately)
- Step-4: Press and hold the "Send" button a second time for approximately 3 to 4 seconds until the green drive light comes on..
(no other indicators will be on)
- Step-5: After approximately 5 minutes, if there are no errors, then all indicators with the exception of the "power" indicator will be off.
- Step-6: Press the diskette eject button.
(both the FD and T/R indicators will flash)
- Note: If there are more diskettes to be formatted, then repeat steps 2 through 5.*
- Step-7: Power off the ER-02FD unit prior to any further use.
- Note: If there are any errors during formatting, then the FD indicator will come on after the green drive indicator goes off. You must repeat steps 2 through 5 if there are any errors.*

Physical connections**Register to Register:**

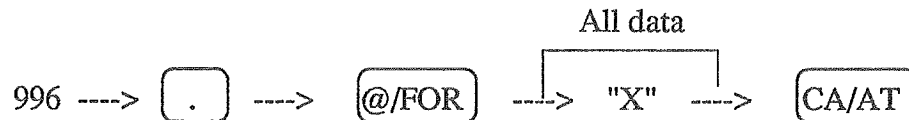
The ER-A5CB loader cable is used for the transferring of one ER-A550 program to another ER-A550. The ER-A5CB loader cable is connected between the ECR SIO connector located beneath the panel door at the right front corner of the cabinet.

Register to FD unit:

The cable used for sending or receiving an ER-A550 program to one of the FD units is a service parts item (part number: **QCNW-7578RCZZ**) and is connected between the ECR SIO connector located beneath the panel door at the right front corner of the cabinet and the SIO port located at the rear of the FD unit.

Steps for "Saving" the ER-A550 program to the FD unit

- Step-1: Set the ER-01FD or the ER-02FD dipswitches as previously mentioned.
- Step-2: Obtain a 3 1/2" floppy diskette that has been formatted by the ER-01FD or ER-02FD.
- Step-3: Insure that SRV job # 903-A = 4.
- Step-4: Connect the ER-A550 with the ER-01FD or the ER-02FD using the loader cable from service parts (part number **QCNW-7578RCZZ**).
- Step-5: Place the mode key to the SRV (7 o'clock) position.
- Step-6: Power up the ER-01FD or the ER-02FD.
- Step-7: Insert the formatted 3 1/2" diskette into the drive.
- Step-8: Enter the following key sequence at the ER-A550 to start sending the program:

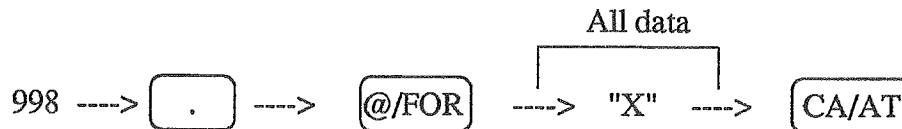


X = "0" for SSP (Special Service Patch) data.

- Step-9: The ER-A550 will display a 5 digit number on the right side of the display that will increment as the program is being sent.
- Note: In the case of the ER-02FD, you will see the T/R indicator flicker, then the green drive light will come on momentarily, then the T/R indicator will flicker again. This will occur continuously until the entire program has been saved.*
- Step-10: If there are no errors when sending the program, then (with the exception of the power indicator) all indicators at the ER-01FD or the ER-02FD will go off, and the ER-A550 will print "SEND OK".

Steps for "Receiving" the ER-A550 program from an FD unit

- Step-1: Set the ER-01FD or the ER-02FD dipswitches as previously mentioned.
- Step-2: Obtain a 3 1/2" floppy diskette that has been formatted by the ER-01FD or ER-02FD.
- Step-3: Master Reset the ER-A550.
- Place the SRV mode key to the 6 o'clock position.
 - Hold down the Journal Feed key.
 - Turn the SRV mode key one click clockwise to the 7 o'clock position.
- Step-4: Insure that SRV job # 903-A = 4.
- Step-5: Connect the ER-A550 with the ER-01FD or the ER-02FD using the loader cable from service parts (part number QCNW-7578RCZZ).
- Step-6: Place the mode key to the SRV (7 o'clock) position.
- Step-7: Power up the ER-01FD or the ER-02FD.
- Step-8: Insert the 3 1/2" diskette containing the program into the drive.
- Step-9: Enter the following key sequence at the ER-A550 to to set it in the "Receive" mode:



X = "0" for SSP (Special Service Patch) data.

- Step-10: Depress and hold the "Send" button until the green drive indicator comes on.
- Step-11: That the ER-A550 will display a 5 digit number on the right side of the display that will increment as the program is being received.
- Note: In the case of the ER-02FD, you will see the T/R indicator flicker, then the green drive light will come on momentarily, then the T/R indicator will flicker again. This will occur continuously until the entire program has been sent*
- Step-12: If there are no errors when receiving the program, then (with the exception of the power indicator) all indicators at the ER-01FD or the ER-02FD will go out and the ER-A550 will print "RECEIVE OK".
- Step-13: Perform a SRV reset.
- Turn the service key to the SRV mode (6 o'clock).
 - Count to 5 seconds.
 - Then turn the service key to the 7 o'clock position.

Steps for "Transferring" the program from one ER-A550 to another ER-A550

Step-1: Prepare the ER-A550 that will receive the program;

- Insure that amount of ram installed is the same or greater than the sending unit.
- Install any necessary options desired.
- Master reset the receiving ER-A550.

Step-2: Insure that SRV job # 903-A = 4.

Step-3: Connect the ER-A550(s) with the ER-A5CB loader cable at the ECR SIO port located under the access panel at the right front corner of each unit.

Step-4: Place the mode key to the SRV (7 o'clock) position at both units.

Step-5: Enter the following key sequence at the receiving ER-A550 to set it in the "Receive" mode:

998 ----> [.] ----> [@/FOR] ----> [CA/AT]

Step-6: Enter the following key sequence at the sending ER-A550 to start the transfer of the program:

996 ----> [.] ----> [@/FOR] ----> [CA/AT]

Step-7: That the ER-A550(s) will display a 5 digit number on the right side of the display that will increment as the program is being received.

Note: In the case of the ER-02FD, you will see the T/R indicator flicker, then the green drive light will come on momentarily, then the T/R indicator will flicker again. This will occur continuously until the entire program has been sent

Step-8: If there are no errors when transferring the program, then the sending unit will print "SEND OK" and the receiving will print "RECEIVE OK".

Step-9: Perform a SRV reset at the receiving ER-A550.

- Turn the service key to the SRV mode (6 o'clock).
- Count to 5 seconds.
- Then turn the service key to the 7 o'clock position.