RS-232C Serial Interface

MODEL **MZ-1E01**

INSTRUCTION MANUAL

FOREWORD

Congratulations on your purchase of the Sharp RS-232C Serial Interface [MZ-1E01].
Be sure to read this instruction manual in order to use the interface properly.
Be sure to keep this instruction manual.
If during use there should be something that you do not understand or something is not functioning properly, it should prove useful.

PRECAUTIONS

1) This interface is made from LSI and other precision components and should not be used in places where there are rapid temperature fluctuations, high humidity or too much dust. Also, avoid using it in direct sunlight. The above may cause the interface to malfunction.
2) Do not hit or drop the interface.
3) When using the interface do not touch the pins of the components or the traces on the board directly with your hands since there is the danger of static electricity damaging the components.
4) This manual is prepared carefully; however, if there is anything unclear, any questionable portions, or any comments, contact your local SHARP dealers.
   The contents of the system software packs and this manual may be changed for revision without prior notice.
5) The system software (FDOS master file) of Business Computer Model-3500 Series is all original software of SHARP Corporation, which is copyrighted by SHARP Corporation.
   Prohibited is reproduction of the system software and this manual in whole or in part without permission from SHARP Corporation.

CONNECTING PROCEDURE

1. Make sure that power is off to the Model-3500 Series Business Computer and its peripheral units.
2. Install the MZ-1E01 in one of slots 1, 2, 3 or 4 of MZ-1U02 Expansion Unit that mounted in the Model-3500 Series Business Computer Main Unit in the direction shown below.
   The following figure shows the MZ-1E01 installed in slot 3.
   After installation, fasten the MZ-1E01 with screws used to close the slot cover.

channel 1
channel 2
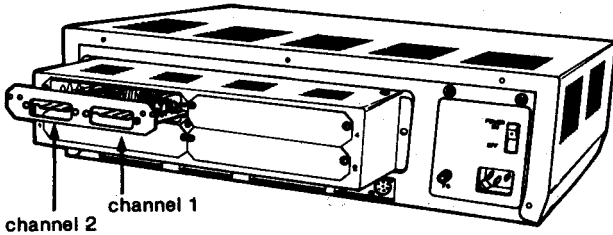
3. Solder the each loose wire of optional RS-232C interface cable [MZ-1C05] with a proper connector of peripheral device.
4. Connect the interface MZ-1E01 and the peripheral device with the cable [MZ-1C05].
   And then fasten it with two screws on the both ends of the connector.
5. Set the RS-232C interface controlling FDOS Master disk (accessories) in the Mini-Floppy Disk Drive unit (channel-drive number A0) located on the right side of the Model-3500 Series Business Computer Main Unit. Turn power on the peripheral device (CRT display, etc.), and then the Model-3500 Series Business Computer Main Unit.
   (The FDOS Master attached with Model-3500 Series Business Computer Main Unit and that of version No. V2.0 to V2.2 are is not applicable.)
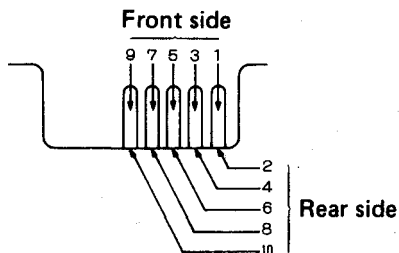
CHANNEL NUMBER

Max. 3 channels of RS-232C interface with MZ-1E01 are available for Model-3500 Series Business Computer Main Unit.
Each channel number corresponds with as follows.

Installed in main unit	Channel 0
The right side connector from rear view	Channel 1
The left side connector from rear view	Channel 2

CONTACT SIGNAL TABLE

Front side

Following table shows the contact and input/output signal of the interface [MZ-1E01].

Contact No. (Front)	Signal name	Abbre-viation	EIA code	Contact No. (Rear)	Signal name	Abbre-viation	EIA code
1	Receive data	SD	BA	2	Carrier detect	CD	CF
3	Send data	RD	BB	4	Ready	READY	SCA
5	Clear to send	CS	CB	6	Data terminal ready	ER	CD
7	Data set ready	DR	CC	8	Paper out	PO	CH/CI
9	Ground	GND		10	Ground	GND	

Note: Connect the signal ground (SG) and the frame ground (FG) of the peripheral device to ground contacts 9 and 10 (GND).

DIP SWITCH STATE TABLE

Switch No.		Function (Meaning)	
Channel 2 (left side)	Channel 1 (right side)	ON	OFF
1	5	The CD signal (contact 2) is always ON (high level) when the system is turned on.	The CD signal (contact 2) is ON (high level) only during data output. However, when the echo function is provided on the host side, the signal does not turn ON (high level).
2	6	An error will occur when the ER signal (contact 6) is OFF (low level) or open during data output.	The ER signal (contact 6) is ineffective.
3	7	Same as above.	Waits (suspends) data output when ER signal (contact 6) is OFF (low level) or open.
4	8	An error will occur when the PO signal (contact 8) is ON (high level) during data output.	The polarity described in the left hand column is reversed.

FOR YOUR REFERENCE

Refer to the following instruction manuals for the guidance and relative statements of RS-232C Interface.

- ○ MZ-3500 OWNER'S MANUAL
  - ・Guidance and note for RS-232C interface.
  - ・Input code table for RS-232C interface.
- ○ MZ-3500 BASIC LANGUAGE MANUAL
  - ・Relative statement for RS-232C interface
    (Can not be used TERM statement).
- ○ MZ-3500 BASIC LANGUAGE MANUAL APPENDIX
  - ・Relative error codes for RS-232C interface.

SPECIFICATIONS

Model:	MZ-1E01
Input/output method:	RS-232C serial input/output
Number of channels:	2 channels
Code used:	7 bit ASCII or 8 bit ASCII code
Baud rate:	110 − 9600 bits/sec.
Transmission mode:	Half-duplex mode
Synchronization mode:	Asynchronous mode (not suited for synchronous mode)
Transfer control:	No protocols
Data format:	Stop bits 1/1.5/2
	Parity . . . . even/odd/none
Command words:	CHANNEL, SEND, RCV, SENREV, OPCHNL, POLLING, RLIST
Components:	Integrated circuits and discrete components
Operating temperature:	10°C to 35°C
Outer dimensions:	140 (W) x 142 (D) x 15 (H) mm
Weight:	170g
Accessories:	Instruction manual (this manual), channel number label