AMANO

PIX-3000x

OPTIONS MANUAL

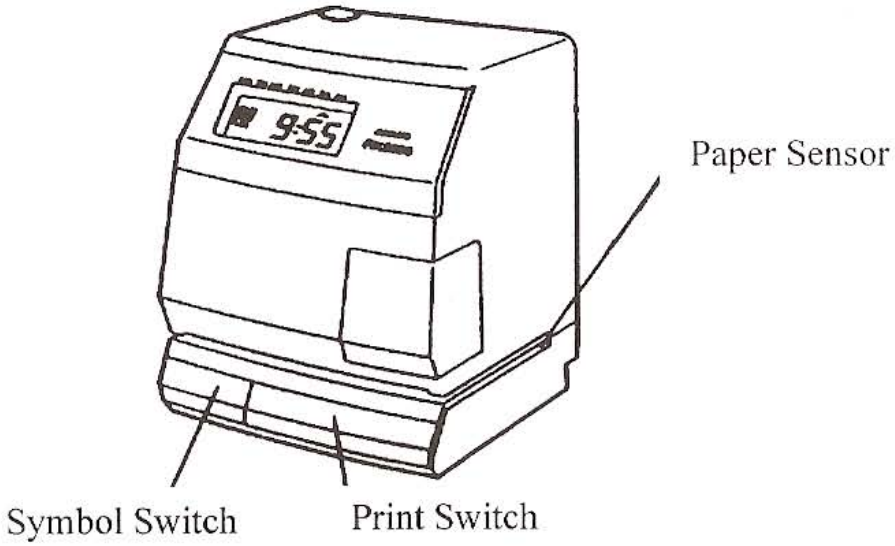
Introduction: HOW TO USE THIS MANUAL

The PIX3000x Option Manual is a collection of instructions on the operation of SIGNAL OUTPUT (Chapter 1), MASTER & SLAVE (Chapter 2), and PROGRAMMING (Chapter 3). In each chapter be sure to read the first section titled ABOUT ... That section will guide you on your way.

The programming of all options is included in the chapter on PROGRAMMING.

Overview: GETTING STARTED

EXTERNAL VIEW



MATERIALS REQUIRED

1. Small flat screw driver for inserting wires into the options terminal block.

2. Philips #2 screw driver for the installation of options P.C.B.

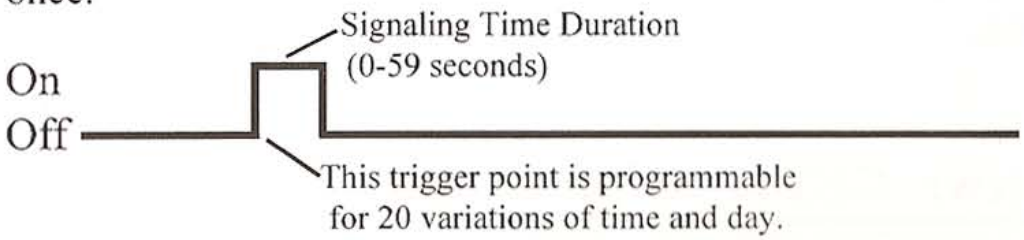
3. This Options Manual.

4. The PIX Operations Manual.

Chapter 1: SIGNAL OUTPUT

1-1 ABOUT SIGNAL OUTPUT

A Signal Output is achieved by means of a dry contact relay. The PIX3000x can be programmed to generate up to 20 signals which may be set for different days and times (Section 3). However, the duration of the contact (signal) is also a programmable option which is set once.



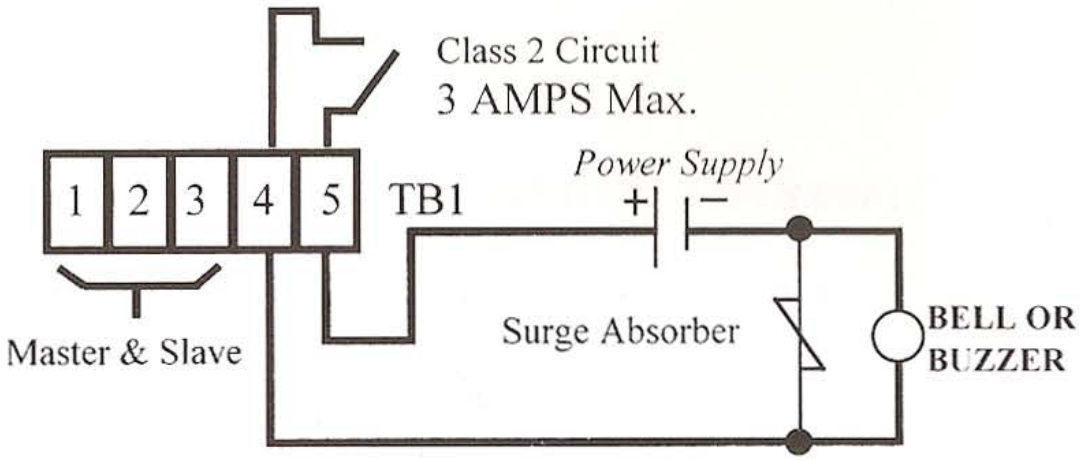
1-2 INSTALLATION

1. Disconnect AC power before connecting.

2. See Section 2-4 for Options P.C.B. Installation.

3. See Section 2-3 for Terminal Block Wiring.

4. Terminal Block Connection.

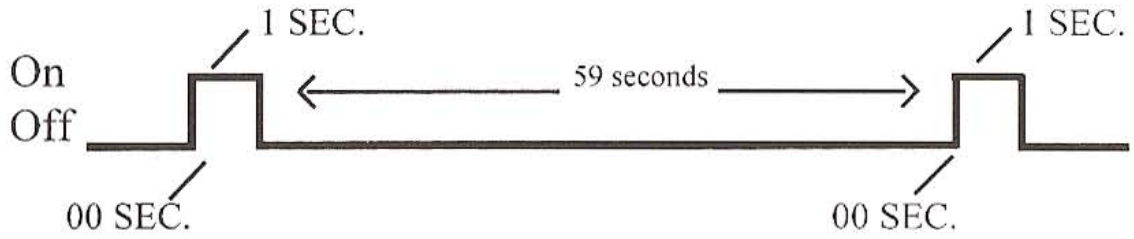


NOTE: To protect machine from noise or surge, please connect the surge absorber (*Example:* ESA-100010, S-1205) with load as shown above. It is recommended that you use a 12, 18, 24 or 30 volt signal device. If this is not available, an external relay should be used for 110v signals.

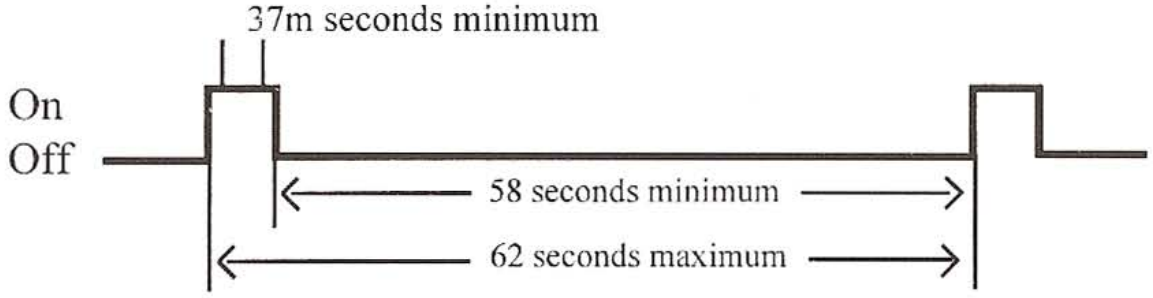
Chapter 2: MASTER & SLAVE CLOCK

2-1 The Master & Slave function of the PIX synchronizes the PIX's connected to each other (up to 6). The Master&Slave functions of the PIX3000x consists of one (1) Master clock and a maximum of five (5) Slave units. The PIX does not have an hourly correction of minutes.

PIX Master Output:

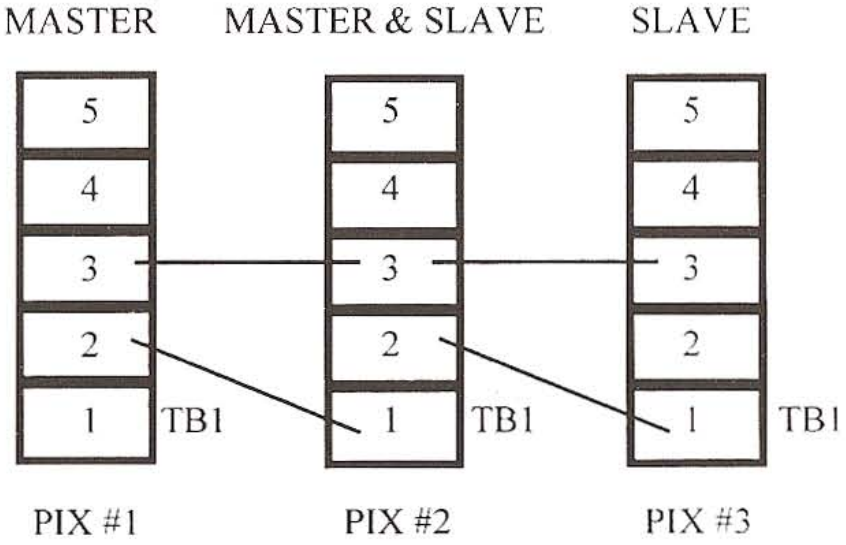


PIX Slave Input:



DUTY CYCLE IS NOT IMPORTANT

Typical Connection (See Section 2-2):

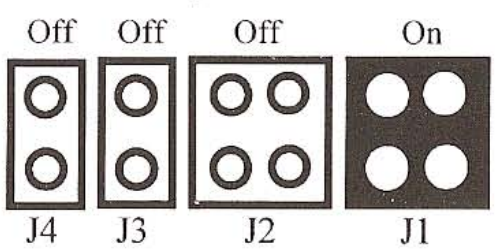


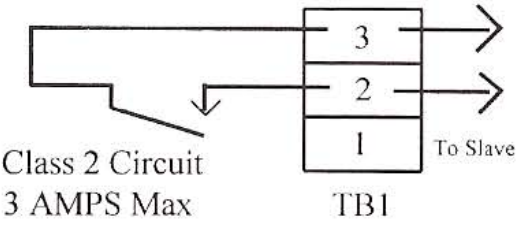
2-2 JUMPERS & CONNECTIONS

- Disconnect AC power before connection.

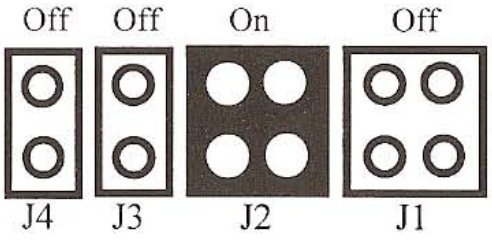
- Maximum wire distance in one direction is 2000ft. at 22 AWG.

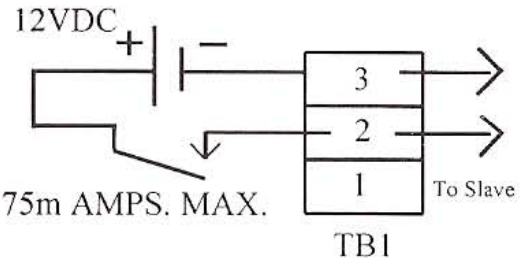
1. Master Dry Contact



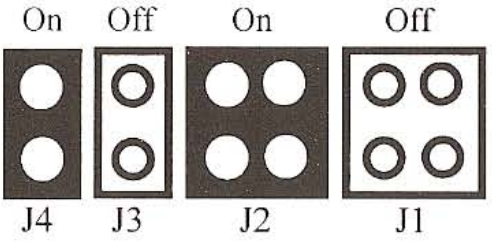


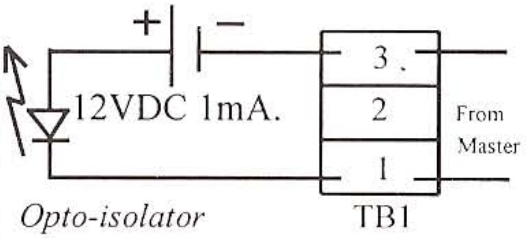
2. Master 12V Pulse



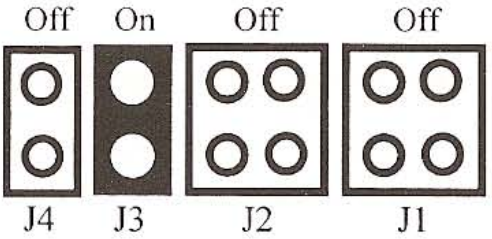


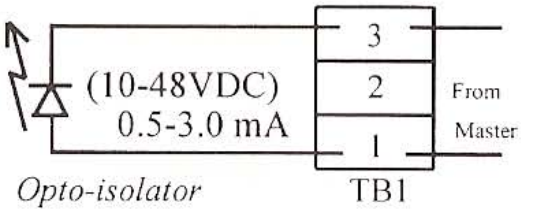
3. Slave Dry Contact





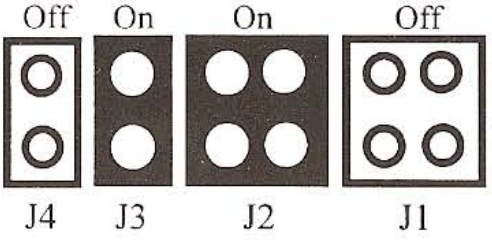
4. Slave Pulse

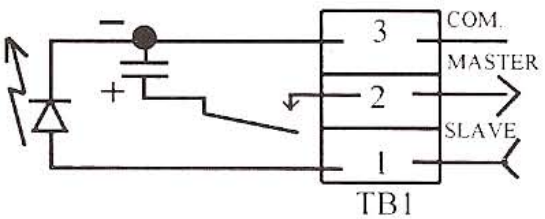




POLARITY PROTECTED

5. Master & Slave Combination (Factory Setting)



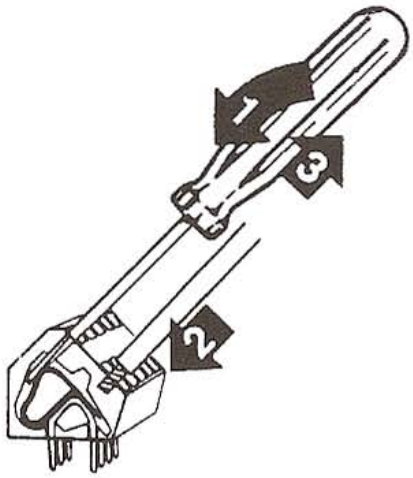


2-3 TERMINAL BLOCK WIRING

1. Remove the cover case.

2. Remove wall mount plate. See Operations Manual on Wall Mounting (Section 1-7).

3. Use flat screw driver to open TB1 as indicated.



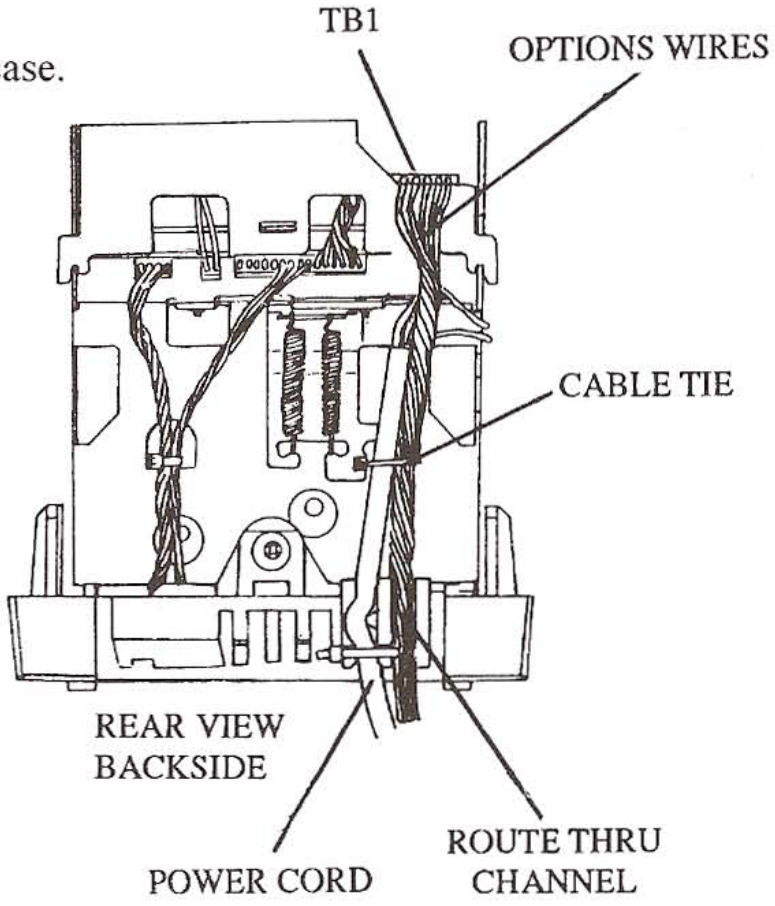
4. Insert option wires into TB1.

5. Route wires down the backside of PIX through the channel as indicated.

6. Use cable tie to secure option wires in place.

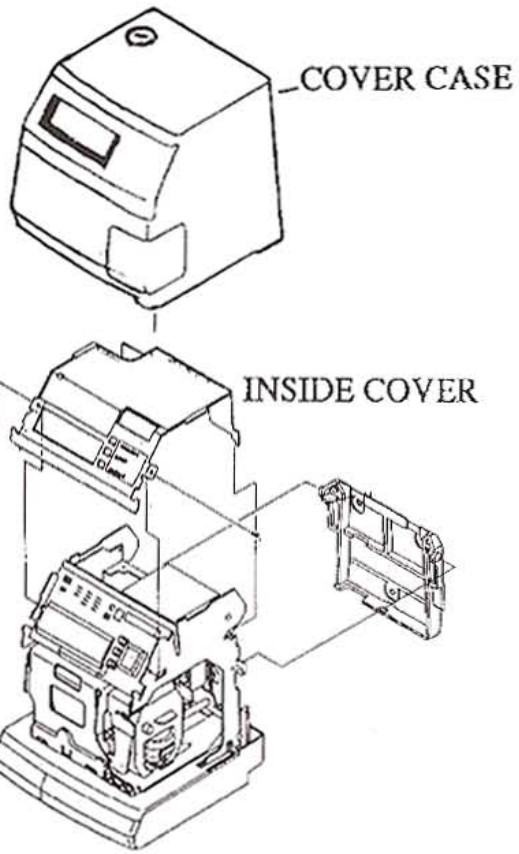
7. Replace wall mount bracket.

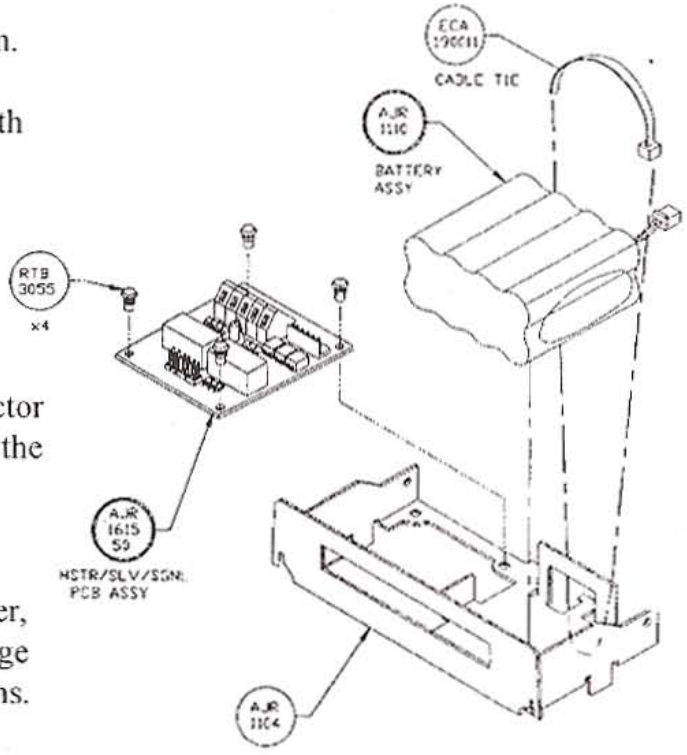
8. Replace cover case.



2-4 MASTER/SLAVE & SIGNAL OUTPUT P.C.B. INSTALLATION

1. Unplug AC power cord.
2. Use the key to remove the cover case.
3. Disconnect the batteries.
4. Use a philips screw driver to remove the two screws holding the inside cover.
5. From the front of the PIX, grasp the two tabs on the right and left side of the inside cover and gently hinge it backwards.
6. Remove the two rivets holding the battery bracket.
7. Remove the battery bracket.
8. Remove the two rivets that secure the shield.
9. Place the board on the battery bracket as shown.
10. Secure the the board with four rivets.
11. Reinstall the battery bracket and secure it with two rivets.
12. Plug in the 6 pin connector on the options board to the 6 pin connector on the power board.
13. Reinstall the inside cover, taking care not to damage the programming buttons.



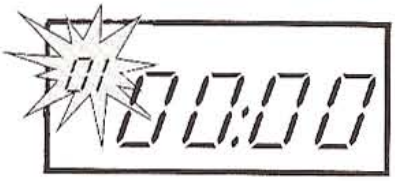


Chapter 3: PROGRAMMING

3-1 SETTING SIGNAL PROGRAM

1. The Signal Program screen looks like this. A maximum of 20 programmed signals may be set.

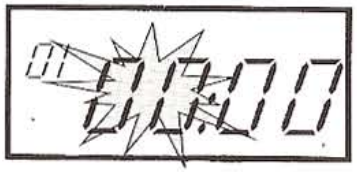
2. Select the correlating signal program number for the data to be edited.



Press the CHANGE button to advance the signal program number.

Press the ENTER button to edit the signal program data.

3. Set the hour.



Press the CHANGE button to advance the hour.

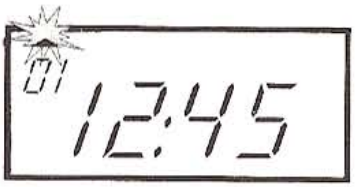
Press the ENTER button to save the new data.

4. Set the minute.

Press the CHANGE button to advance the minute.

Press the ENTER button to save the new data.

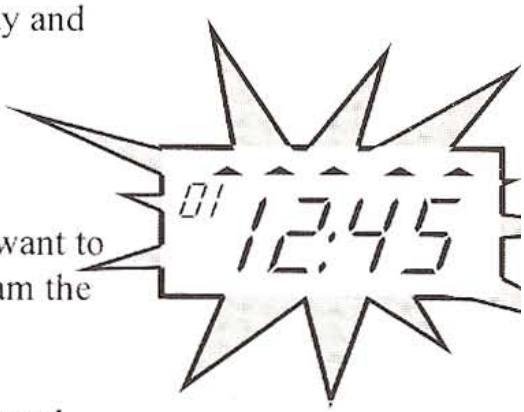
5. Select the days for signal to sound.



Press the CHANGE button to turn off the day and move to the next day.

Press the ENTER button to turn on the day and move to the next day.

6. Final confirmation. All digits will blink.

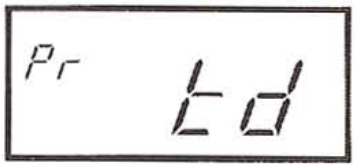


Press the CHANGE button if you do not want to save the signal program data and reprogram the signals you do want.

7. Press ENTER to save and move to next signal program number

3-2 SIGNALING TIME DURATION

The signaling time duration program screen looks like this.



Press the CHANGE button to advance the seconds from 0 to 59.

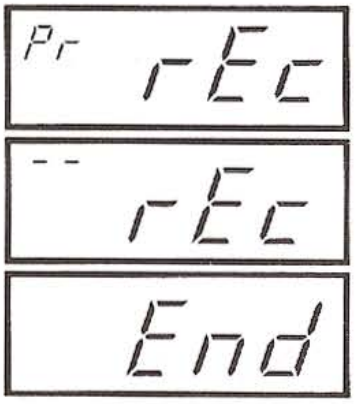
Press the SYMBOL switch to subtract the seconds from 59 to 0.

Press the ENTER button to save the seconds.

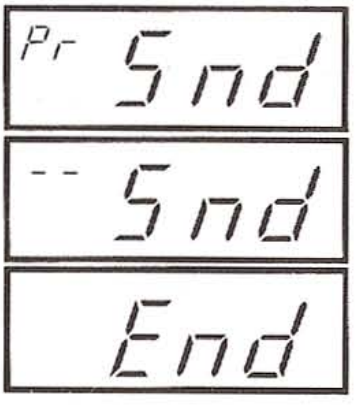
3-3 OPERATION FOR SYMBOL PROGRAM DATA SEND AND RECEIVE

To SEND and RECEIVE symbol program data requires the connection of the Master Clock and the Slave Clock respectively (See Section 2). By following the steps outlined below, the Master PIX will send Symbol 1 and 2 character code data to the Slave PIX.

A. To receive symbol program data select the indicated screen.
   1. Press the ENTER button to wait for the reception of data from the Master PIX.
   2. When the data has been successfully received, the PIX will display "End".



B. To send symbol program data, select the indicated screen.
   1. Press ENTER to send data to Slave Clock.
   2. After all data is sent, the PIX will display "End".



ERROR CODES: E5 rEc Parity Error
E6 rEc Check Sum Error
E7 rEc 2 Minute Time Out