

PRODUCT MANUAL

ELECTRONIC DISPLAYS INC.

135 S. CHURCH STREET
ADDISON, ILL. 60101

www.electronicdisplays.com



ED206 – 101 – 6D – N1 – BT

ED206 – 101 – 6D – N1 – BT – DF

DESCRIPTION:

- Six-digit time of day clock in 12/24 hour mode selectable by user. HH:MM:SS format. Both single and double face displays.
- Terminal block on endplate to wire remote contacts.
- Ethernet to serial controller provided to connect to a 10 Base T network.
- NEMA Rated.

OPERATION:

This clock system is design to be controlled by Ethernet controllers. The Ethernet controller operate on a 10 Base T Ethernet connection. The Ethernet controllers have an RJ-45 connector on one side of the extrusion. The Ethernet controllers have a terminal block located inside the extrusion. The terminals are labeled *TX+* and *TX-*. Each display has a terminal block inside the right endplate of the display. These terminals are labeled *RX+* and *RX-*. Connect the *TX+* from the Ethernet controller to the *RX+* inside the display. Connect the *TX-* from the Ethernet controller to the *RX-* inside the display. When connecting multiple displays to each Ethernet controller, daisy chain the rest of the display to the first display. **EXAMPLE:** Connect the *RX+* from the first display connected to the Ethernet controller, to the *RX+* on the 2nd, 3rd, 4th, etc... Connect the *RX-* from the first display connected to the Ethernet controller, to the *RX-* on the 2nd, 3rd, 4th, etc... See Ethernet configuration later in this manual for more details.

**If there are any questions or comments regarding this order, please call our
Toll-Free number @ 1-800-367-6056**

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Unpacking Instructions:

A copy of these instructions is packed with each unit. Open carefully to avoid scratching the unit's paint and plastic lens or cutting the line cord.

Mechanical Mounting Instructions:

This unit is equipped with two rivnuts in the top of the unit for mechanical mounting purposes. The bolts that are screwed into these rivnuts are standard 5/16 by 1 1/4" bolts. To avoid damaging the rivnuts, do not tighten these bolts more than 10 ft/lbs. For a panel mount model, the display is attached to red acrylic and could be placed in a panel cutout.

Power Requirements:

This unit is equipped with a standard, eighteen-gauge, three-wire line cord that is designed to be plugged into a standard, 120 VAC, 60 Hertz, grounded outlet. The maximum current draw for this unit (at 120 VAC) is 1 Ampere for ED400-101-4D-N1 and 3/4 Ampere for ED225-101-4D-N1.

Power-up Response:

UPON POWER UP, THE UNIT WILL DISPLAY " 12:00" AND START TIMING. SET THE DISPLAY BY PRESSING THE FAST AND SLOW SET SWITCHES. THE DISPLAY IS IN A 12 HOUR FORMAT.

Label Definitions:

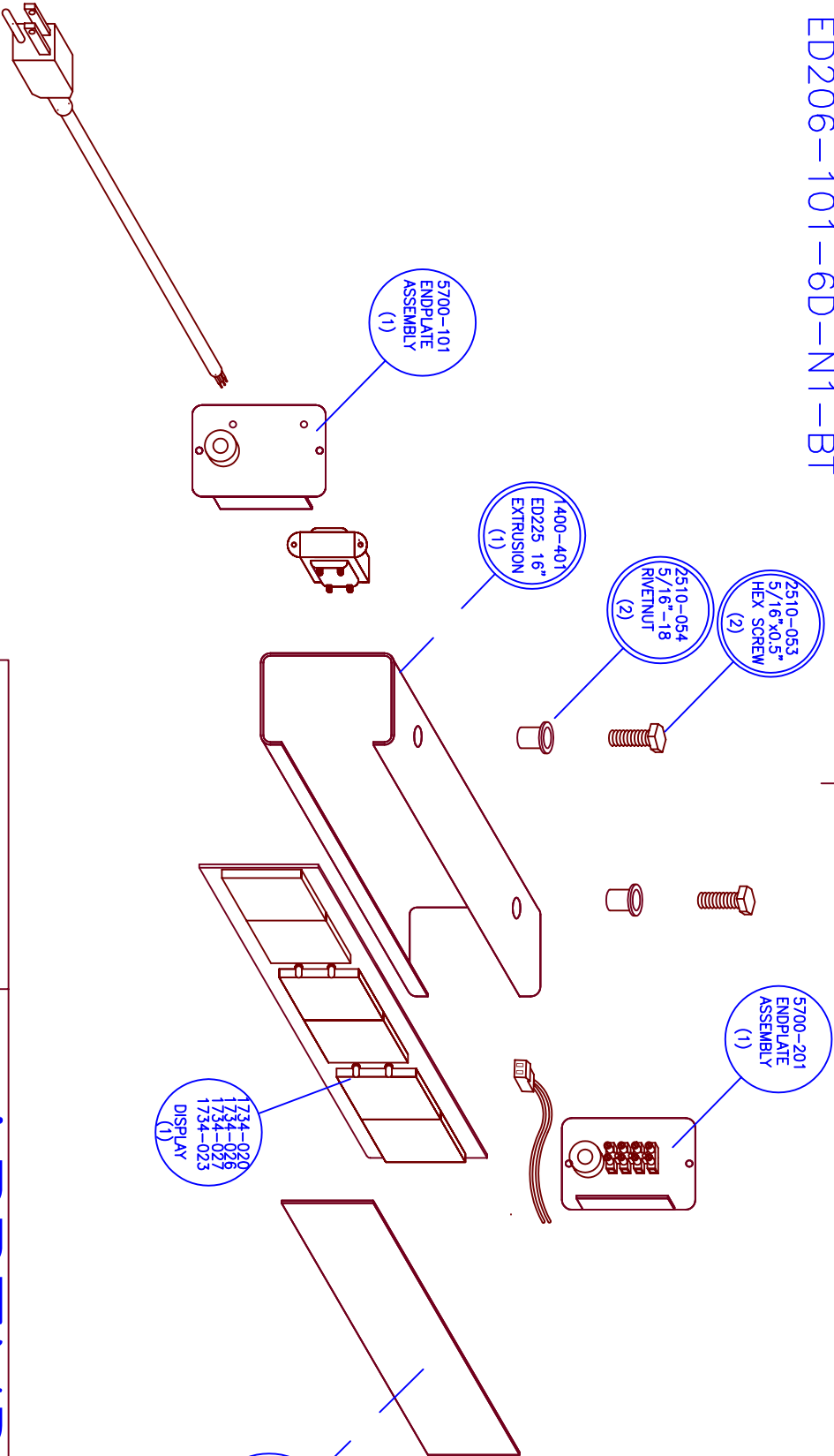
The following table shows some commonly used labels and their definitions. These labels are right next to the terminal block on the inside of right end plate.

LABEL	DEFINITION
TX+	Positive side of balanced data line for RS-422 or RS-485 serial output signals. TX+ from master to RX+ on slaves.
TX-	Positive side of balanced data line for RS-422 or RS-485 serial output signals. TX- from master to RX- on slaves.
RX-	Negative side of balanced data line for RS-422 or RS-485 serial input signals. TX+ from Ethernet to serial card to RX+ on master.
RX-	Negative side of balanced data line for RS-422 or RS-485 serial input signals. TX- from Ethernet to serial card to RX- on master.

Product Components:

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

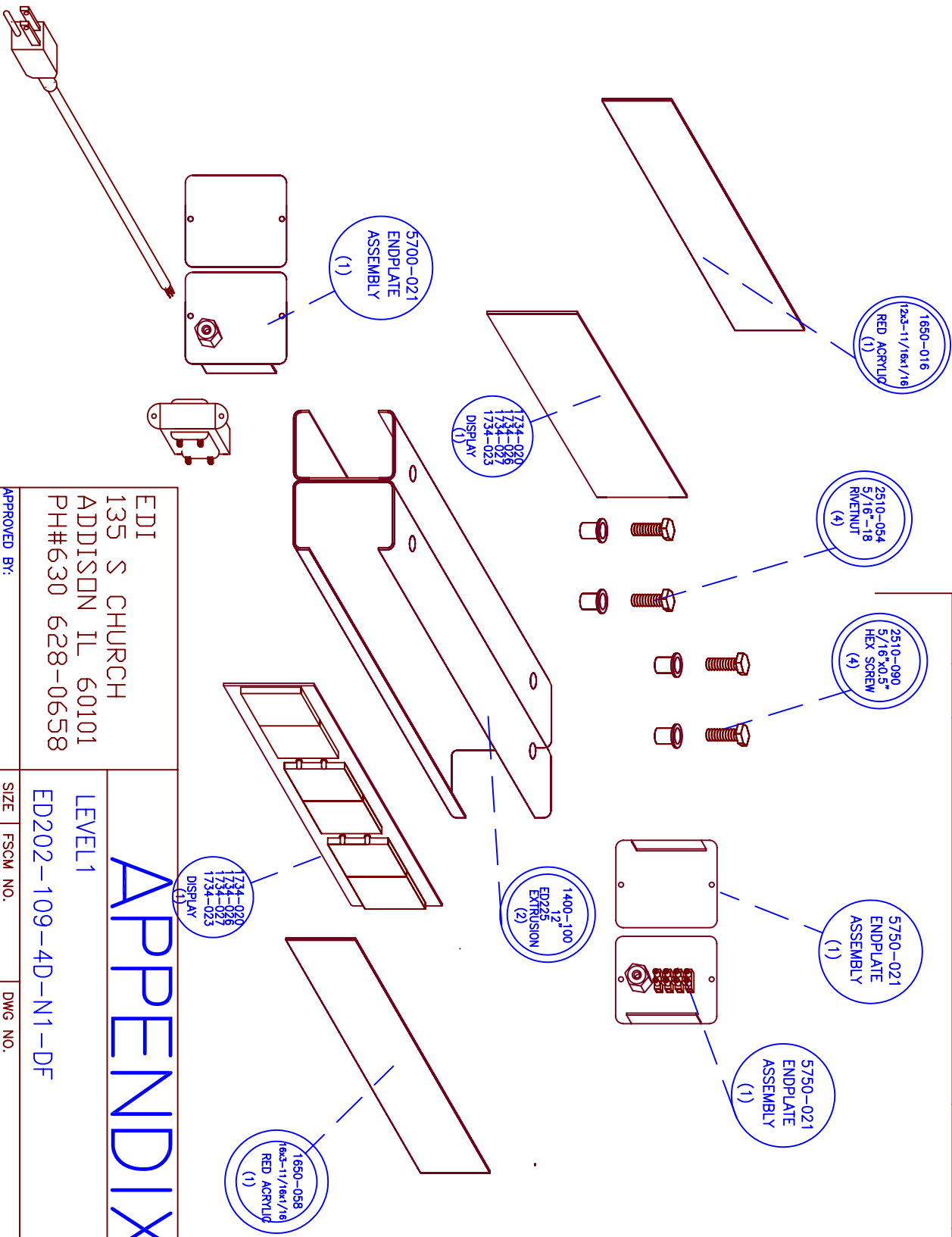
ED206-101-6D-N1-BT



EDI Inc. 135 S CHURCH ADDISON IL60101		<div>APPENDIX A</div>		
LEVEL 1 ED206-101-6D-N1-BT				
APPROVED BY:	SIZE	FSCM NO.	DWG NO.	REV
	A		R:\LV1\ED206-102HMS-6D-N1	0
DRAWN BY: Zbigniew Jakubczak	SCALE	NONE	SHEET	

ED206-101-6D-N1-DF

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

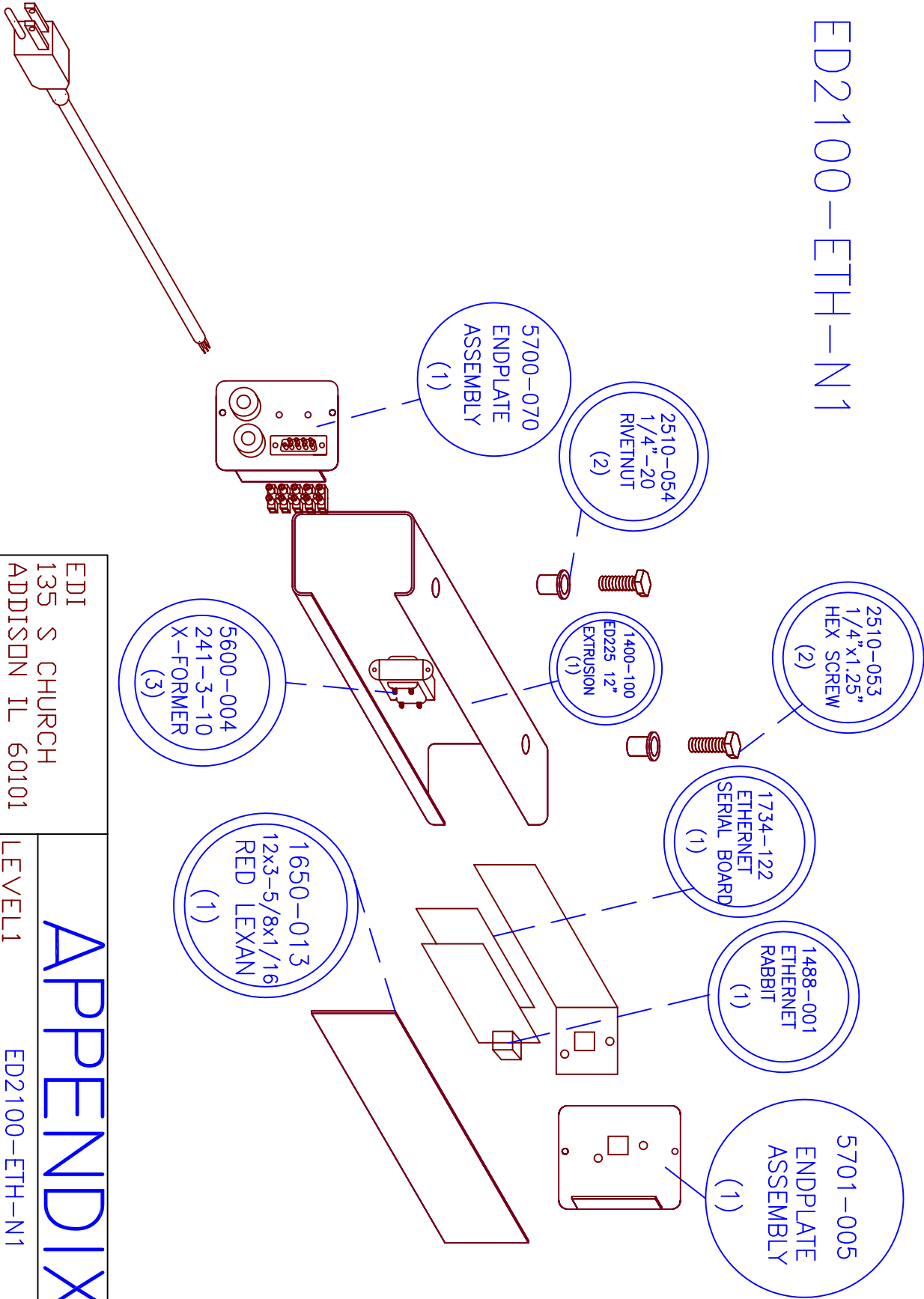


EDI
135 S CHURCH
ADDISON IL 60101
PH#630 628-0658

LEVEL1
APPENDIX A
ED202-109-4D-N1-DF

APPROVED BY:	SIZE	FSCM NO.	DWG NO.	REV
DRAWN BY: HENRY BLITZKI	A		R:\LV1\7SEGMENT\ED202-101-6D-N1-DF-JAYCOR	0
	SCALE	NONE		SHEET

ED2100-ETH-N1



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ADDISON IL 60101
PH#630 628-0658

APPENDIX A

LEVEL1

ED2100-ETH-N1

APPROVED BY:

SIZE FSCM NO.

DWG NO.
R:\LV\7SEGMENT\ED2100-ETH-N1. dts

REV

DRAWN BY:

SCALE

SHEET

Zbigniew Jakubczak

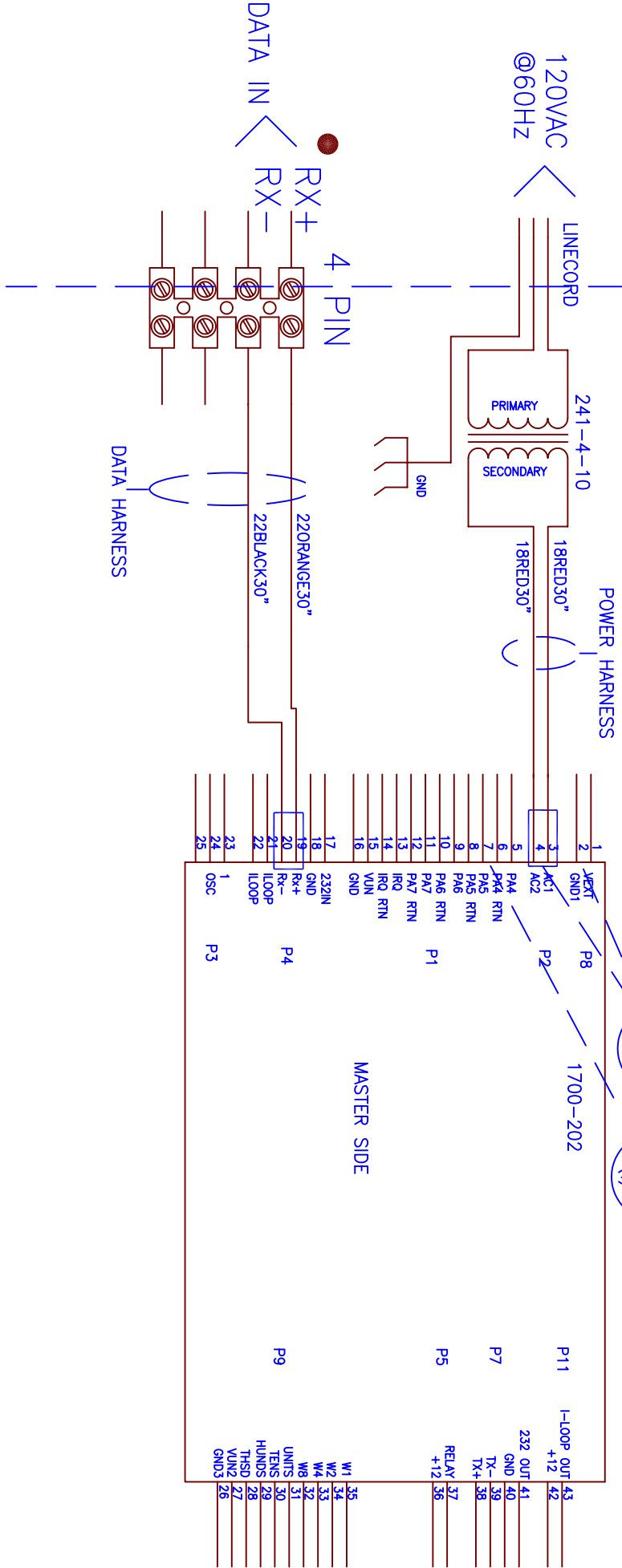
NONE

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Wiring Diagrams:



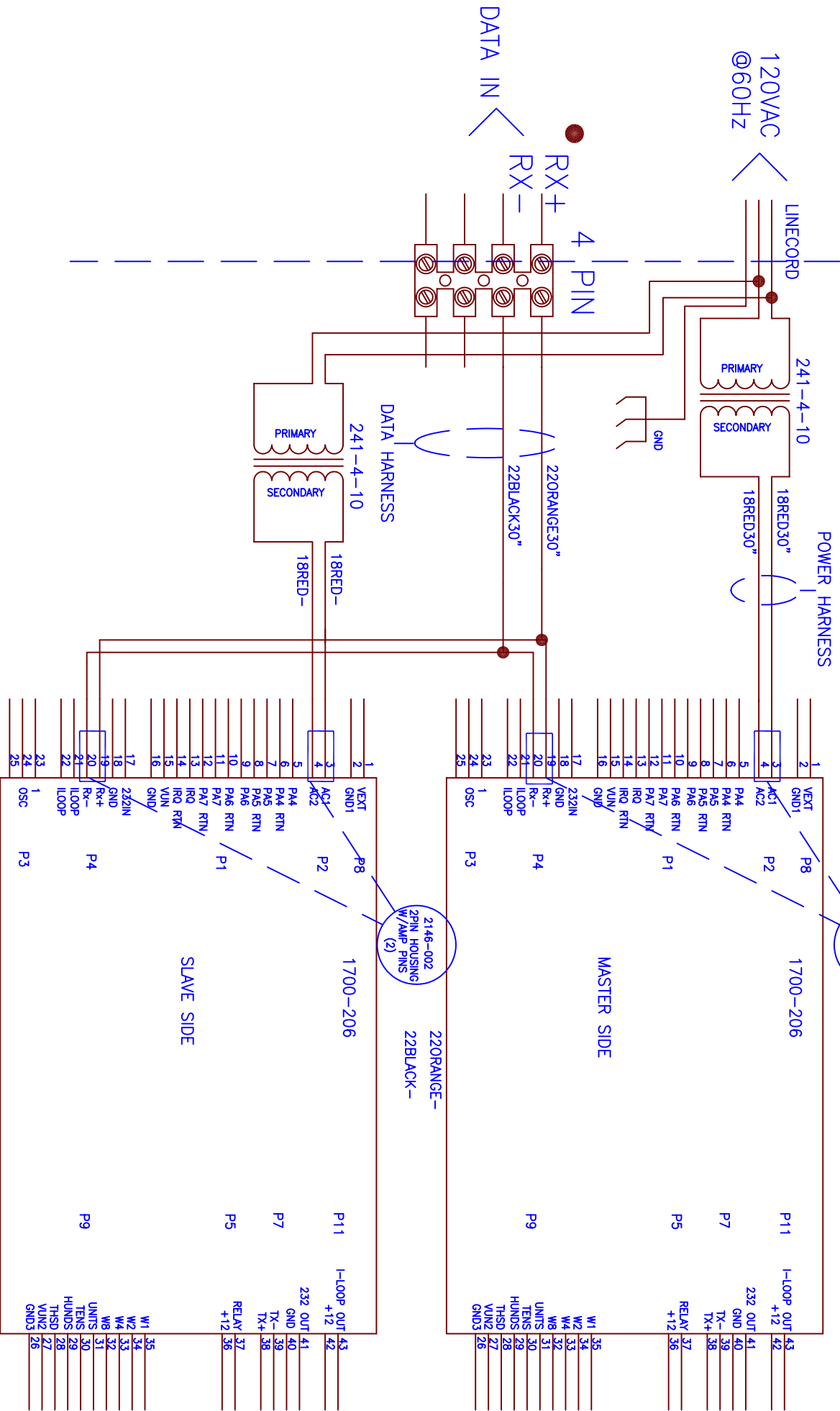
ED206-101-6D-N1



-INDICATES SIDE OF TERMINAL BLOCK TO PLACE SHOP WIRES

CUSTOMER SHOP
WIRING WIRING

ED206-101-6D-N1-DF



-INDICATES SIDE OF TERMINAL BLOCK TO PLACE SHOP WIRES

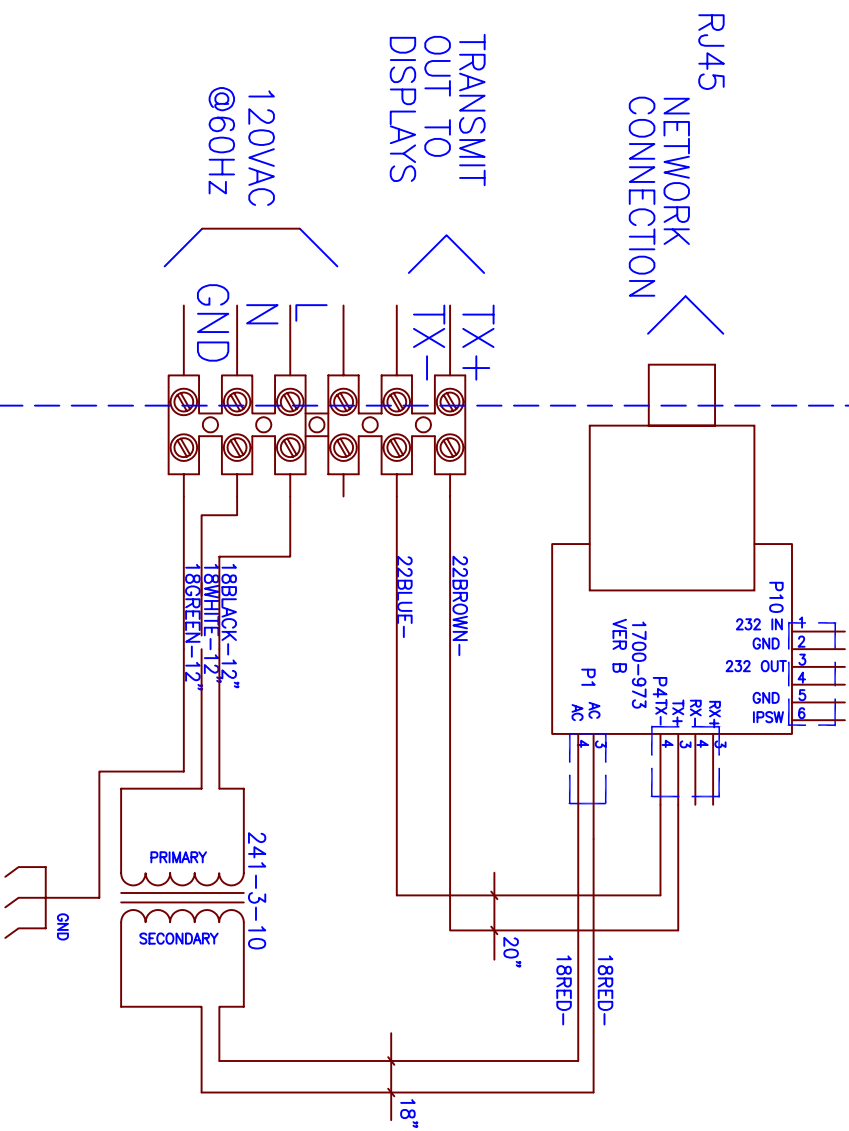
APPENDIX B

DRAWN BY:
HENRY BILITZKI

R:\WIRING\ED202-101-6D-N1-DF-JAYCOR

CUSTOMER SHOP
WIRING WIRING

ED2100-ETH-N1-SR2

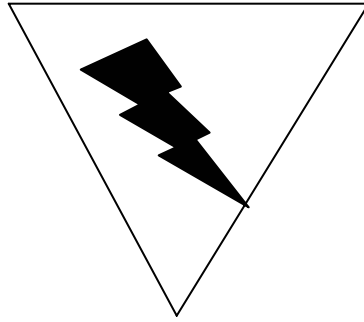


APPENDIX B

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Ethernet Configuration:

Installation:



WARNING – SHOCK HAZARD

Always completely disconnect power from the display before opening the unit. Do not reapply power to the display until the unit has been securely closed.

I: Initial Setup:

NOTE: DURING THIS PROCEDURE, DO NOT POWER UP UNIT UNTIL INSTRUCTED TO DO SO!

1. Place unit on table near a PC or Laptop used only for initial configuration.
NOTE: PC must have a 10 base T or 10/100 base T network card installed and must be configured for Auto Detect or 10 Megabits only. (Please refer to your Network Card Manual if you need to change this.) This PC should be running Windows 98/ME/2000, /XP/NT 4.0.
2. Attach one end of the supplied crossover cable the Ethernet device located on the right endplate.
3. Connect the other end to the network in the PC (See Diagram in Figure 1).
4. Power up the unit with 110 VAC.
5. Insert the 3.5" floppy disk into your floppy drive. Navigate to the floppy drive and you will find IPUTIL.EXE. Double click on the IPUTIL.EXE
6. Run IPUTIL and you should see all the network settings that were set to the EDI Ethernet device.
7. Highlight the Device you would like to change and Click Change IP Address...(See Figure 2)
8. This screen allows you to enter the Subnet Mask, the IP address, and the Gateway. (These settings will have to be obtained from your IT department). **NOTE: THE SAME IP ADDRESS CANNOT EXIST MORE THAN ONCE ON THE SAME NETWORK!**
9. Enter the settings and click OK. The Ethernet device will reset in 5 seconds.
10. Remove power and all cables.

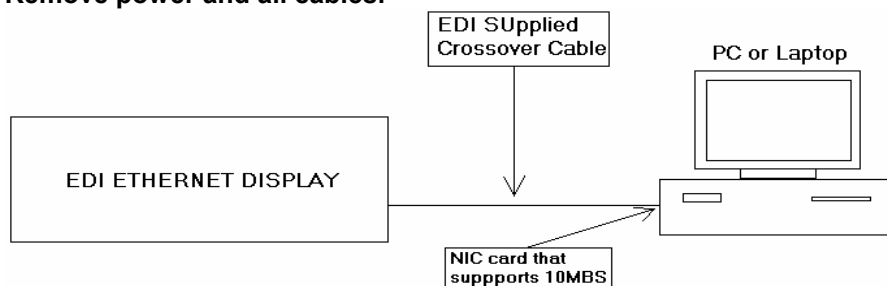


FIGURE 1:

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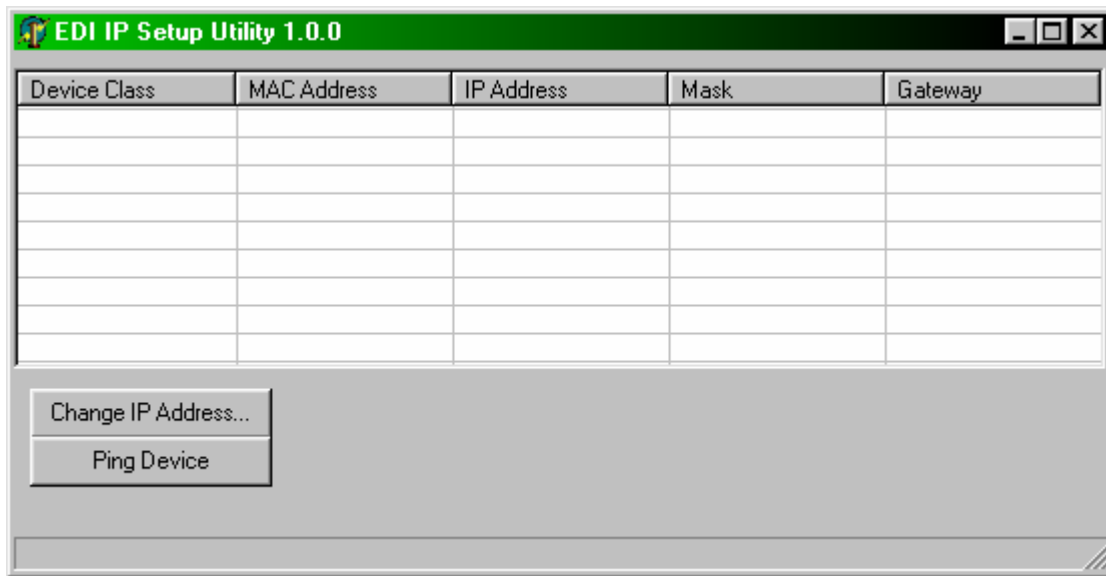


FIGURE 2

II. Final Configuration:

1. Connect one end of a CAT5E cable to our display's RJ-45, Ethernet connection.
2. Run the other end to a Hub on your network. Plug the RJ-45 into the hub that supports 10MBPS.
NOTE: The wire positions on this end must be the same as the other end to create a "Pass Through" cable.
3. The unit is now ready to be mounted.
4. Mount to a structure using one of the following methods:
 - Wall mount
 - Hang mountThis Ethernet device is equipped with RS485 serial output to the display.

Other Important Notes:

These Ethernet adapters were tested on a Windows N.T. 4.0 server network. The actual workstations operating systems these devices would communicate to were as follows:

- Windows 98/NT/2000/ME/XP

All other operating systems have not been tested.

Disclaimer.

Although our Ethernet units will support gateways, we cannot provide technical support due to the amount and variety of network configurations when using gateways. Please contact your IT department for technical support when using gateways.

Using The Web-Based Software Configuration Tool

Once the unit is configured and attached, you now can use a standard browser to configure the standalone time unit.

Note: You should disable the proxy (if one is setup) for the address of the devices, otherwise any browser requests will be forwarded through the proxy. Your IT department can help you set this up.

Sequence:

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1. Start the browser and enter <http://x.x.x.x> where x.x.x.x is the ip address of the device.
2. Click on the Change Configuration link.
3. Enter the user name and password:
 - a. User: **edintp**
 - b. Password: **quantum54pizza**

Service:

There are no parts in your unit classified as 'user serviceable' parts. The plastic or glass cover can be cleaned using a soft cloth and a gentle glass cleaning solution.

If there are any questions or comments regarding this order, please call our Toll-free number: 1 - 800 - 367 - 6056

Warranty:

The standard warranty for all products is one year on all parts and labor at our facilities. All products are designed and manufactured by Electronic Displays Inc. If you need assistance, please call or FAX us and we will be happy to provide technical assistance. If you feel that your unit needs repair, please call us first and then ship the unit to:

Electronic Displays Inc.
135 South Church Street
Unit A
Addison, Ill. 60101
Attn: Repair department

Our telephone number is:

(630) 628-0658

Our FAX number is:

(630) 628-0936

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