44689053

GDCONTROL DATA

LINEWRITER 400/800 MODELS CT301-A/B AND CT302-B WITH OEM PARALLEL INTERFACE

INSTALLATION AND CHECKOUT FACTORY SWITCH SETTINGS CHOOSING A LOCATION INPUT POWER CONVERSIONS INTERFACE SIGNALS

SET-UP AND REFERENCE MANUAL

REVISION RECORD REVISION DESCRIPTION 01 Pre-release of the Linewriter 400 Set-Up and Reference Manual. **JULY '83** Α Release of the Linewriter 400 Set-Up and Reference Manual. NOV., '83 B Added 800 LPM Information and Interface Signals FEB., '84 Restructured entire manual. Revised Installation and Checkout section. Added Quiet С **JULY '84** Cabinet information. Added clarification to installing ROM's into 1PC1, and incorporated ECO PH20308. JAN., '85 Ē Added Backplane Switch Settings and ECO PH20598. APRIL'85 PUBLICATION NO. **IDENTIFICATION NO. Revision Procedure:** 44689053 The revision record page is revised for each revision package to reflect the revision sequence: (Pre-Release) Rev. 01, 02, etc;

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MANUAL TO EQUIPMENT LEVEL CORRELATION

This manual reflects the equipment configurations listed below.

EQUIPMENT TYPE	SERIES	TOP LEVEL ASSEMBLY	COMMENTS
CT301-A CT301-B	1-12 4-12	59829800 59829801	No I/O Connector D Type I/O Connector (Short Line)
CT302-B	1-8	59829851	D Type I/O Connector (Short Line)

v

PREFACE

This manual contains switch setting information and installation and checkout instructions for the Linewriter printers. This manual will aid the user as it also contains reference material (such as power/frequency conversions) which may be desired at a later date.

The publications listed below are related publications for these printers.

PUBLICATION

PUBLICATION NUMBER

Set-Up and Reference Manual
(With RS-232 Serial Interface)44689037Set-Up and Reference Manual
(With Series 1 Interface)44689059Maintenance Manual44689032Technical Manual44689051Parts Identification Manual44689062

WARNING: This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A peripheral computing device pursuant to Subpart J of Part 15 of the FCC Rules which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

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APRIL '85



WITHOUT DOORS

WITH DOORS

LINEWRITER 400/800

SECTION I INSTALLATION AND CHECKOUT

Before performing this procedure, study Figure 1-1 to identify and locate the major components necessary for proper Installation and Checkout.

Section II contains the factory switch settings of the printed circuit boards in locations 1PC1, 1PC2, 1BP1 and 6PC1 if applicable. These switch settings may be changed by the Customer Engineer. The illustrations will serve as a reference and will allow you to return the printer's switch settings to their original factory switch positions.



FIGURE 1-1. INSTALLATION AND CHECKOUT MAJOR COMPONENTS

Procedure

- 1. Roll the printer to an area where there is adequate environmental conditions, electrical power and clearance for service. Refer to Section III if necessary.
- 2. Plug the printer into its ac source and open the bonnet. The bonnet release latch is located in the center of the printer on the sloping surface directly beneath the bonnet window.
- 3. Install paper, ribbon cassette and print band per the Operator Instruction Cards beneath the bonnet as follows:
- a. Paper Installation-Card 1, Step 2 only.
- b. Ribbon Cassette Installation-Top Card.

c. Print Band Installation-Card 7 (Back).

If there are translator ROMs (small rectangular electronic components) in the print band's shipping container, open or remove the Card Cage Cover and install them in card 1PC1 at this time. See Figure 1-2. Refer to the document in the print band's shipping container for lower ROM bits and upper ROM bits part numbers. Install the upper bits ROM in the "High Order Bits" location, and the lower bits ROM in the "Low Order Bits" location. Be sure not to install the ROMs upside-down. The notches in the ROMs should line up with the notches in the ROM sockets.

NOTE

DIL NETWORKS, JUMPER WIRES AND IN-STALLATION INSTRUCTIONS WHICH MAY COME WITH SOME KITS CAN BE DISCARDED. ONLY ROMS ARE USED ON LINEWRITER PRINTERS.

Once the ROM set is installed, translation is enabled by setting the appropriate switch ON that matches the character set of the print band being installed. These switches are located on 1PC1 also. See Section II. For example, if installing a 48 character print band, set that switch to the ON position, all other Select Translator ROM Switches should be OFF. If a band is installed which does not require translation but the translation ROMs are already installed on 1PC1, it is not necessary to remove the ROMs, just set the equivalent switch on 1PC1 to the OFF position.



FIGURE 1-2. TRANSLATOR ROM LOCATIONS

For units without front doors: Install and set up the paper platform or paper basket if provided. See Figure 1-4. Read Paper Basket Installation for the explanation of the basket accessories. The paper platform is installed such that the wires that run perpendicular to the edge of the paper are facing up. This allows the paper to slide along the wires when the paper contacts the paper platform. If the paper platform is installed up-side-down, the paper will catch on the wires as it enters the paper platform and will cause stacking problems.

4.

For units with front doors: Be sure the paper is loaded into the printer properly. See Figure 1-5 for the correct paper path through the printer. Press the FORM FEED switch until approximately 3 or 4 sheets of paper are resting on the paper platform at the back of the printer.

5. Turn the printer's power switch ON (located on the sloping outside surface, directly beneath the Control Panel for units without doors). For units with doors, the power switch is located on the back of the printer.

- 6. Press the STOP/START switch on the Control Panel. The START INDICATOR should light. Press it again, the START INDICATOR will go out.
- 7. Press the TEST PRINT switch to print a test pattern. Press the switch again to stop test printing. If printing does not occur or if the printer is performing erratically, assure the switches on cards 1PC1 and 1PC2 are set in the proper factory positions. Refer to Section II.
- 8. Turn the printer's power switch OFF.
- 9. Install the I/O cable through the cutout in the back of the printer (bottom right side). See Figure 1-3. The cable and its connector must be CSA certified or rated UL94V-1 or better. Check to be sure the bonnet latches correctly. If it doesn't, the printer may have to be leveled. Leveling is achieved by rotating the appropriate caster's adjusting nut; clockwise will raise the caster.
- 10. The printer is ready to be put On Line with the data source.
- 11. Close and lock all access covers.
- 12. Installation and Checkout is now complete.



FIGURE 1-3. I/O CABLE INSTALLATION

1-3

Paper Basket Installation (See Figure 1-4)

The paper basket mounts on the back of the printer. The thumb screw on each mounting bracket is loosened and the mounting hook on the basket slips down in a hole in the top of the mounting bracket. The thumb screws on both mounting brackets are tightened to secure the paper basket.

The basket can be used with several accessories to insure proper stacking for all types of forms under humid and non-humid conditions. Boxes of forms can be irregular in their natural stacking tendency from box to box. The accessories can be used together, or in any combination to help modify the stacking tendencies of a particular box or a particular type of paper.

The following will describe the use of the accessories and their function.

The Paper Stops are used for all but the very largest forms. They are used to provide a front and rear stacking guides. They can be moved forward or backward depending on the size of the form.

The Paper Bracket Support is installed to control form stacks which have a valley at the top. The valley can be caused by the printer's tractor positions. Check the horizontal tractor positioning if the feed holes on the edges of the forms are not smooth and flat. Forms left in the box at the front of the printer can increase forms tension and deform the feed holes. The paper bracket support is compressed to mount in the bottom center of the basket. This bracket can improve all types of forms stacking.

The Fold Breaker assembly can be installed to help "break" the paper perforations as the paper leaves the printer. This is normally installed.



FIGURE 1-4. PAPER BASKET INSTALLATION AND SET-UP



FIGURE 1-5. PAPER PATH FOR PRINTERS WITH FRONT DOORS

SECTION II FACTORY SWITCH SETTINGS

•



FIGURE 2-1. PERSONALITY MODULE (1PC1) FACTORY SWITCH SETTINGS (FOR ASSEMBLY NUMBER 44682846).



NUMBER 44682847/48).



FIGURE 2-3. CPU (1PC2) FACTORY SWITCH SETTINGS







SECTION III CHOOSING A LOCATION

The important factors to be considered when choosing a location for the printer are environmental, electrical and service access requirements. Ideally a computer room environment is desired. See Table

3-1 for environmental specifications, Table 3-2 for electrical specifications and Figures 3-1 and 3-2 for service access specifications.



FIGURE 3-1. SERVICE ACCESS SPECIFICATIONS (WITHOUT FRONT DOORS)



FIGURE 3-2. SERVICE ACCESS SPECIFICATIONS (WITH FRONT DOORS)

	OPERATING TEMPERATU	RE, HUMIDITY, BAROMETRIC PRESSURE	
	Temperature Range - Dry Bulb	10°C - 40°C	·
		(50°F - 104°F)	
	Temperature Change (Max)	10°C (18°F) per 60 minutes	
	Relative Humidity Range	20 - 80 %	
	Humidity Change (Max)	10% per 60 minutes	
	Dew Point Temperature	Maximum 26°C (79°F)	
	Restrictions	Minimum -4°C (25°F)	
	Barometric Pressure Standard	105 Kilopascals (kpa)	
		79.5 Kilopascals (kpa)	
		(maximum equivalent altitude	
		6560 feet or 2000 meters)	
	High Altitude (Option)	105-Kilopascals (kpa)	
		69 Kilopascals (kpa)	
	· · · · · · · · · · · · · · · · · · ·	(maximum equivalent altitude	
		9850 feet or 3000 meters)	
dera	ated linearly to 95°F at 6560 feet.		•
	NON-OPERATING TEMPERA	TURE, HUMIDITY, BAROMETRIC PRESSURE	
	NON-OPERATING TEMPERA	TURE, HUMIDITY, BAROMETRIC PRESSURE	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Bange	TURE, HUMIDITY, BAROMETRIC PRESSURE	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range	TURE, HUMIDITY, BAROMETRIC PRESSURE	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range	TURE, HUMIDITY, BAROMETRIC PRESSURE 10°C to 50°C (14°F to 122°F) 15°C (27°E) per bour maximum	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range	TURE, HUMIDITY, BAROMETRIC PRESSURE 10°C to 50°C (14°F to 122°F) 15°C (27°F) per hour maximum 10 to 90% B H. non-condensing	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range	TURE, HUMIDITY, BAROMETRIC PRESSURE 10°C to 50°C (14°F to 122°F) 15°C (27°F) per hour maximum 10 to 90% R.H. non-condensing	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range TRANSIT	TURE, HUMIDITY, BAROMETRIC PRESSURE 10°C to 50°C (14°F to 122°F) 15°C (27°F) per hour maximum 10 to 90% R.H. non-condensing (Period Up To One Week)	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range TRANSIT Temperature Range	TURE, HUMIDITY, BAROMETRIC PRESSURE 10°C to 50°C (14°F to 122°F) 	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range TRANSIT Temperature Range	TURE, HUMIDITY, BAROMETRIC PRESSURE 10°C to 50°C (14°F to 122°F) 	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range TRANSIT Temperature Range Temperature Change/Rate.	TURE, HUMIDITY, BAROMETRIC PRESSURE 	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range TRANSIT Temperature Range Temperature Change/Rate Humidity Range.	TURE, HUMIDITY, BAROMETRIC PRESSURE	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range TRANSIT Temperature Range Temperature Change/Rate Humidity Range Barometric Pressure.	TURE, HUMIDITY, BAROMETRIC PRESSURE	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range Temperature Range Temperature Range Temperature Range Barometric Pressure	TURE, HUMIDITY, BAROMETRIC PRESSURE 	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range Temperature Range Temperature Range Temperature Range Barometric Pressure	TURE, HUMIDITY, BAROMETRIC PRESSURE 	
	NON-OPERATING TEMPERA Storage (Period Up To 3 Months) Temperature Range Temperature Change/Rate Humidity Range Temperature Range Temperature Range Temperature Range Temperature Range Barometric Pressure	TURE, HUMIDITY, BAROMETRIC PRESSURE 	

		60 HZ UNIT
	Voltana	104 to 129 (nominal 120 V/AC RMS)
a. h		
U.		
C.	Frequency	
a.		Less than 4.5 amps LW400 (Mith datas)
		Less than 5.3 amps LW400 (With doors)
		Less than 6.1 amps LW800
		Less than 6.8 amps LW800 (With doors)
e.	VA	. 575 VA max - LW400
		675 VA max - LW400 (With doors)
		775 VA max - LW800
		870 VA max - LW800 (With doors)
1		
	Voltage	Range 1 - 191 to 235 VAC RMS (Nominal 220 VAC RMS)
a.		Bange 2 - 208 to 256 VAC RMS (Nominal 220 VAC RMS)
Ь – Ь	Phase	
0.		
C.		. 49.0 to 50.5 Hz
α.	Current	Range 1 - less than 2.7 5 amps LW400 (M/M dears)
		nange 1 - less than 3.3 amps LW400 (With doors)
		Range I - less than 3.7 amps LW800
		Kange 1 - less than 4.1 amps LW800 (With doors)
		Range 2 - less than 2.5 amps LW400
		Range 2 - less than 3.0 amps LW400 (With doors)
		Range 2 - less than 3.4 amps LW800
		Range 2 - less than 3.9 amps LW800 (With doors)
е.	VA	. 645 VA max LW400
		765 VA max LW400 (With doors)
		875 VA max LW800
8		970 VA max LW800 (With doors)
		EO 117/00 117 11017
	Voltage	
а.		. 30 mz - range I - 191 to 233 (nominal 220 VAC KMS)
		50 Hz - Hange 2 - 208 to 256 (nominal 240 VAC HMS)
		50 Hz - Kange 4 - 87 to 107 (nominal 100 VAC RMS)
		60 Hz - Kange 3 - 104 to 128 (nominal 120 VAC RMS)
	-	60 Hz - Kange 5 - 87 to 107 (nominal 100 VAC RMS)
b.	Phase	. Single
C .	Frequency	. 50 Hz - 49.0 to 50.5 Hz
		60 Hz - 59.0 to 60.6 Hz
d.	Current	. 50 Hz - Range 1 less than 2.75 amps LW400
		Range 1 less than 3.3 amps LW400 (With doors)
		Range 1 less than 3.7 amps LW800
		Range 1 less than 4.1 amps LW800 (With doors)
		Range 2 less than 2.5 amos LW400
• · · ·	· · · ·	Range 2 less than 3.0 amps LW400 (With doors)
		Range 2 less than 3.4 amps IW800
		Range 2 less than 3.9 amos IW800 (With doors)
	x ¹	Range Δ less than 6.0 amos $1W/\Delta\Omega\Omega$
		Range A less than 7.1 amos IM/AOO (M/ith doors)
		Pange 4 loss than 9.0 amps 1W900
		For Hange 2 loss than 4.5 amos 1.0/400
		OU HZ - Hange 3 less than 4.5 amps LW400
		nange 3 less than 5.3 amps LW400 (With doors)
	· •	Range 3 less than 6.1 amps LVV800
· · · ·		hange 3 less than 6.9 amps LW800 (With doors)
		Hange 5 less then 5.25 amps LW400
		Hange 4 & 5 less then 6.2 amps LW400 (With doors)
		Range 4 & 5 less then 7.25 amps LW800
		Range 4 & 5 less then 8.0 amps LW800 (With doors)
e .	VA	. 575 VA max - 60 Hz LW400
		675 VA max - 60 Hz LW400 (With doors)
		645 VA max - 50 Hz LW400
۰. ۱		765 VA max - 50 Hz LW400 (With doors)
		775 VA max 60 Hz LW800
		870 VA max 60 Hz LW800 (With doors)
		875 VA max 50 Hz LW800
		970 VA max - 50 Hz IW800 (With doors)

SECTION IV INPUT POWER CONVERSIONS

The printer comes from the factory specifically wired for your application. Conversion within the printer from one frequency of operation to another is only available on optional 50/60 Hz units. The conversion requires reprogramming the ac power board plug for the required configuration if the unit is equipped with a universal programming board (4PC1) as shown in Figure 4-1, or by repositioning fast-on terminal connectors to new positions on a terminal strip as shown in Figure 4-2, and changing the 50 HZ or 60 HZ band pulley. 60 HZ units come equipped with a power cord and is terminated with a non-locking 3 prong plug, 50 HZ units come equipped with a power cord which is terminated without a plug at the wall plug end. Refer to Figure 4-1 for input power frequency modifications for early units with a universal programming board. Refer to Figure 4-2 for input power frequency modifications for units with a terminal strip. The extra 50 Hz or 60 Hz band pulley is stored on early units, in an accessory box. In later units it is stored in the printer's interior and is located beneath the right rear power board cover (as viewed from the front of the printer with the bonnet open).

REMOVE POWER

To change voltage on units equipped with a universal program board, move the voltage selection jumper plug from its present position on 4PC1 J1-J5 to the selected voltage position J1, J2, J3, J4 or J5 (See Figure 4-1).

To change voltage on units equipped with a terminal strip, follow the wiring diagram label instructions above the terminal strip or Figure 4-2.

For frequency and voltage changes perform the following procedure:

REMOVE POWER

1. Change the Band Drive Pulley as follows. Remove the ribbon and print band, refer to the Operator Instruction Cards beneath the printer's bonnet. Remove the band motor flywheel by removing the nut on top. Refer to the Maintenance Manual procedure, Right Band Pulley and Shaft Replacement for a drawing of the parts.

- 2. Loosen the band motor mounting screws to release belt tension.
- 3. Pry up on the pulley to remove. Replace the pulley with the other frequency pulley in the location described above. The 50 Hz pulley is larger than the 60 Hz pulley.
- 4. Position the drive belt on the pulley and perform the Band Drive Belt Adjustment procedure in the Maintenance Manual.
- 5. Install the flywheel and its nut. Install the band and ribbon. Perform the Band Tracking Adjustment procedure in the Maintenance Manual.

If the unit is equipped with a universal program board (4PC1), refer to Figure 4-1 and perform steps 6 thru 8. If the unit is equipped with a terminal strip, refer to Figure 4-2 and perform steps 9 thru 11.

- 6. Move the frequency plug to the correct frequency position on 4PC1 J9 (50 Hz), J10 (60 Hz).
- 7. Change the transformer cables for 50 and 60 Hz on the backplane board 1BP1-J9 with the unused cable plugged into the storage location on 4PC1.
- 8. Move the voltage selection jumper plug on 4PC1 to the correct voltage position J1, J2, J3, J4, or J5.
- 9. Change the transformer cables, P9-60HZ (whichever frequency is desired) on backplane board 1BP1-J9.
- 10. Move the fast-on terminal connectors to new positions on the terminal strip. Refer to the wiring diagram label above the terminal strip or Figure 4-2.
- 11. For 100VAC, 120 VAC, 220 VAC (60HZ or 50HZ), 1BP1-P8/P14 should be plugged into 1BP1-J8. For 240 VAC (50HZ), 1BP1-P8/P14 should be plugged into 1BP1-J14.



FIGURE 4-1. INPUT POWER/FREQUENCY MODIFICATIONS (EARLY UNITS)



1

FIGURE 4-2. INPUT POWER/FREQUENCY MODIFICATIONS

4-3/4-4

SECTION V INTERFACE SIGNALS

This section describes the interface signals associated with this interface. The minus sign before a signal name indicates the actual signal line has a negated logical sense being active when logical "0". A plus indicates positive logical sense being active when at a logical "1".

Band Identification 0 and 1

Two signal lines from the printer to the data source contain binary coded information which identifies the type of band currently on the printer.

Bottom of Forms (BOF)

This is a status line which is active (logic 1) when the forms are at the Bottom of Forms position. The line goes active when the form moves to the Bottom of Forms position, and goes inactive when it leaves this position. In non EVFU machines, Bottom of Forms is defined as being 3, 4, 5, or 6 lines (defined by DIP switches on the CPU board) before the Top of Forms position for either the Fixed Forms Length or the Selectable Forms Length Control Mode.

When the EVFU option is loaded, the Bottom of Forms location is defined by either Channel 2, 8, or 12 by use of DIP switches on the CPU board.

-Buffer Clear

A signal from the data source (logic 0) to the printer that resets the print line buffer to column one if a forms motion command has not yet been received.

Data Strobe

A signal from the data source to the printer which indicates that a data character has been placed on the data lines.

Data 1 Thru 8 and Paper Instruction

These are signal lines from the data source to the printer which carry the codes for print data and forms motion commands.

Demand

A signal from the printer which is used to synchronize data transfer from the data source to the personality module.

EVFU Installed and EVFU Verify

In order to allow the data source to verify that the printer has an EVFU capability, the EVFU verify switch on the personality module must be closed.

Interface Verify

This allows the data source to verify that the I/O connector has been attached by jumpering pins 46 and 45 on the I/O connector together on the personality module.

On Line

A signal from the printer which, when active (logic 1) indicates to the data source that the printer has been placed On Line.

Parity Error

This is a signal line from the printer that will go active when a parity error is detected.

Parity Input

This is a signal line from the data source to the printer that will make the right parity sum (odd or even) for each character on the data lines.

Ready

A signal from the printer which when active (logic 1) indicates that no faults exist within the printer, paper is loaded and the printer is ready to be placed On Line.

Top of Forms (TOF)

the forms are at the Top Of Forms position. The line goes active when the form moves to the Top Of Forms position, and goes inactive when it leaves this position. The Top of Forms location is defined by a counter in Forms Length Control mode, or by Channel 1 when the EVFU is loaded.

VFU RDY

This is a status line which is active (logic "1") when

This is a status line to the data source that when active indicates that the VFU is ready.



FIGURE 5-1. I/O SIGNALS AND PIN ASSIGNMENTS-"D" TYPE CONNECTOR

NOTES



5-3/5-4

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