

Print Method Dot Matrix

Print Speed 192 cps (draft elite)
160 cps (draft-pica)

Print Head 9 x 9 (draft), 18 x 18 (NLQ), 18 x 19 (sans serif)

Print Head Life 100 million character lifespan

Ribbon Cassette

Ribbon Life 4 million characters

Resolution Dot diameter: 3/254" (0.3 mm)

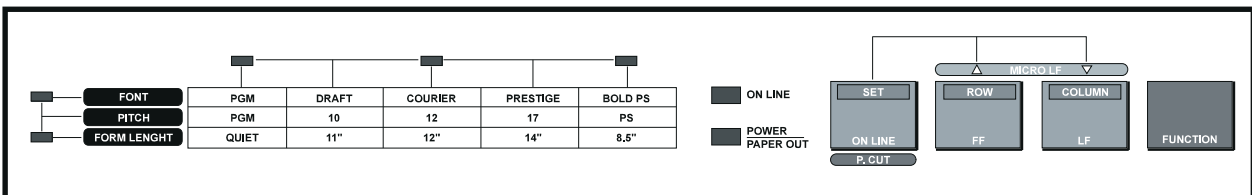
Memory 2K, (32K optional)

Interfaces Centronics parallel
RS-232C serial is optional

Emulations Epson FX-86e (Dip SW1 Off)
IBM Proprinter II (Dip SW1 On)

Paper Handling Tractor feed (with continuous fanfold paper)
Friction feed (with single sheet or envelopes)

Control Panel



Buttons/Keys

ON LINE/SET: Opens and closes the communication lines with the computer.

MICRO LF: These two buttons, labeled individually **ROW/FF** and **COLUMN/LF** can be used while printer is offline or not printing. Micro line feed can be performed while pressing either **LF** or **FF** simultaneously with the **ON LINE** button. Pressing momentarily and releasing **LF** will advance the paper one (1) line. Pressing and holding the the button down advances the paper continuously. If the printhead is in the skip perforation the paper will be advanced to the top of the next page. The **FF** button moves the printhead to the center and the paper is advanced to the top of the next page, resulting in a new top of page being established.

REVERSE MICRO LF: When the printer is offline or not printing in the online mode, a reverse micro line feed can be performed by pressing the **LF** button simultaneously with the **ON LINE** button.

FORWARD MICRO LF: This function can be performed in either the online or offline mode by pressing **FF** and **ON LINE** simultaneously.

FUNCTION: This is an alternate control switch to be used in conjunction with the **LF**, **FF**, **ON LINE** and **P. CUT** buttons. When this button is pressed, the **ON LINE** indicator begins to blink. The following functions are changed when this button is in conjunction with:

LF (Column) - Advances the control table column position.

FF (Row) - Advances the control table row position.

ON LINE (Set) - Sets the control table position (see P. CUT below).

P. CUT (Perforation Cut) - Note: Paper feed selection must be in "T" position and the paper is installed from the rear and printer is not receiving data from the buffer. Perforation cut allows for a three (3) line margin to be skipped before and after the perforation between the pages.

LEDs/Lights

ON LINE/FUNCTION: Indicates printer is online and/or in function mode.

QUIET: Indicates printer is in QUIET mode.

POWER/PAPER OUT: Indicates printer is receiving power and/or printer is out of paper.

ROW: Indicates a row is being used as the current selection.

COLUMN: Indicates a column is being used as the current selection.

SWITCH NUMBER	FUNCTION	ON	OFF	POSITION WHEN SHIPPED
SW1	PRINT MODE	IBM MODE	STANDARD	OFF
SW2	SKIP	1" SKIP	NO SKIP	OFF
SW3	PERFOR AUTO LF	CR + LF	CR ONLY	OFF
SW4	CUT SHEET FEEDER (OPT)	INSTALLED	NOT INSTALLED	OFF
SW5	7/8 BIT CHAR-ACTER	7 BIT	8 BIT	OFF
SW6	CHAR-ACTER SETTINGS	SW1=ON (SEE IBM CHART)		OFF
SW7		CHARACTER SETTINGS)		OFF
SW8		SW1=OFF (SEE INTERNATIONAL CHARACTER SETTINGS)		OFF

Self-test

1. Turn on power while simultaneously pressing **LF** button.
2. It is possible to print out the DIP Switch settings also by turning on the power while pressing the **FF** button.

Cover Removal

1. Remove smoked plastic cover and top cover.
2. Remove platen knob.
3. Raise printer so that bottom is facing you.
4. Insert a screwdriver into bottom openings located on top left and right edge corner.
5. Pry screwdriver to release hook, then separate upper unit from lower unit.
6. Remove front panel by first releasing connector cable, then pull panel straight out towards you.

Configuration

Note: DIP switches are located inside the printer, on the left side facing the front on the bottom plate.

International Character Settings

SW6	SW7	SW8	INTERNATIONAL CHARACTER SET
OFF	OFF	OFF	USA
ON	OFF	OFF	FRANCE
OFF	ON	OFF	GERMANY
ON	ON	ON	ENGLAND
OFF	OFF	ON	DENMARKI
ON	OFF	ON	SWEDEN
OFF	ON	ON	ITALY
ON	ON	ON	SPAINI

IBM Proprinter II Emulation Mode

SW#	FUNCTION	ON	OFF
SW6	CHAR SET	SET 2	SET 1
SW7	AUTO CR	AUTO	NONE
SW8	ZERO FONT	SLASH	NONE

Function Mode

The function mode is selected by pressing the **FUNCTION** button. The **ON LINE** indicator blinks in the function mode and when the function is selected, the **SET** button is pressed, the **COLUMN** indicator illuminates continuously. See Function Chart below to view possible functions using the **ROW** and **COLUMN** buttons.

Function Chart

FUNC-TION	ROW	COLUMN
	ON /// ///	ON ON /// /// ON /// /// ON /// /// ///ON
FONT	ON PGM (program)	DRAFT COURIER PRESTIGE BOLD PS
PITCH	ON PGM (program)	10 cpi (pitch) 12 cpi (pitch) 17 cpi (pitch) PS
OTHERS	/// QUIET ON	11" (Form Length) 12" (Form Length) 14" (Form Length) 8.5" (Form Length)

Note: PGM (Program) overrides software commands sent to the printer. The Quiet mode can only be set (COLUMN indicator is lit) and released (blinking) by repeatedly pressing the **SET** button.

Operator Procedures

Installing Ribbon

1. Turn power off.
2. Slide printhead to center of unit.
3. Remove all slack of old ribbon by rotating the knob on the cassette counter-clockwise.
4. Remove old ribbon by lifting upwards and replace new cassette in same manor, inserting it's rear end first.
5. Gently press down until the wing tabs snap into place.

Adjusting Printhead Gap

Located on the top left of printer is a 6-position lever that when moved changes the distance from the printhead to the platen .0028" at a time.

Paper Installation

This printer uses friction feed for single sheet paper or envelopes and tractor feed for continuous fanfold paper. On the top right hand side of the printer is another lever labeled "F" for friction and "T" for tractor.

Single sheet/Envelopes

1. Turn power on with paper out indicator blinking and make sure the printhead gap is set properly for the thickness of the paper being used.
2. Move the paper feed selector to the "F" position.
3. Raise the top cover and insert the paper behind the platen using the marking on top cover as a guide.
4. Pull the bail release towards the front to wrap the paper automatically around the platen.
5. Press down and hold the **LF** button to advance paper or use the platen knob.

6. To align the paper vertically, change the paper feed selector to the "T" position and align and then reset lever to the "F" position.

Continuous fanfold paper from the rear

1. With the power on and the **PAPER OUT** indicator blinking, remove the top cover.
2. Unlock tractors by pulling up the tractor clamp levers and place paper feed in the "T" position.
3. Insert the paper so that paper holes align with and catch on the tractor pins.
4. Turn platen knob to advance paper half way around, then pull paper bail towards front and printer will rotate the paper about half way around the platen.
5. Press and hold the **LF** button and stop just before the paper reaches the smoked plastic cover.
6. Lock down tractor clamps, push paper bail towards the rear and reverse the platen knob to adjust the printing start position.

Continuous fanfold paper from the bottom

Same as from the rear (see above) except the paper is started from the paper opening located on the front bottom side of the printer and must be manually pushed up until it can reach tractors.

Common Problem and Fixes

Carriage malfunctioning	Carriage gets stuck in left position.	Check control P.C.B.
	Carriage gets stuck in right position.	Check mechanism Check motor Readjust carriage belt Check CPU periphery
Problem with control panel	Carriage won't move at all.	Check mechanism Check motor Check carriage drive system
	Won't go into online condition	Check online button Check motor Check carriage drive system Check CPU periphery
	LF and FF buttons won't function properly	Check LF and FF buttons Check paper feed drive circuit Check CPU periphery Check stepping motor

Printer Options

- Five (5) print pitches
- Proportional printing capabilities
- Complete Epson and IBM characters
- Thirteen (13) international character sets.

Field Replaceable Units (FRU's)

Description	OEM P/N	IBM P/N
Ptr, NLQ, 9-pin, BLACK, 136CL, BIDI,	KX-P1180	31F0623
Ink Ribbon Cassette	KX-P115	
Roller Holder	PJUR14Y	

Service Documentation

There is no service documentation available to be ordered at this time.

IBM machine type: 1515-P50

Tech Support 800-877-7764