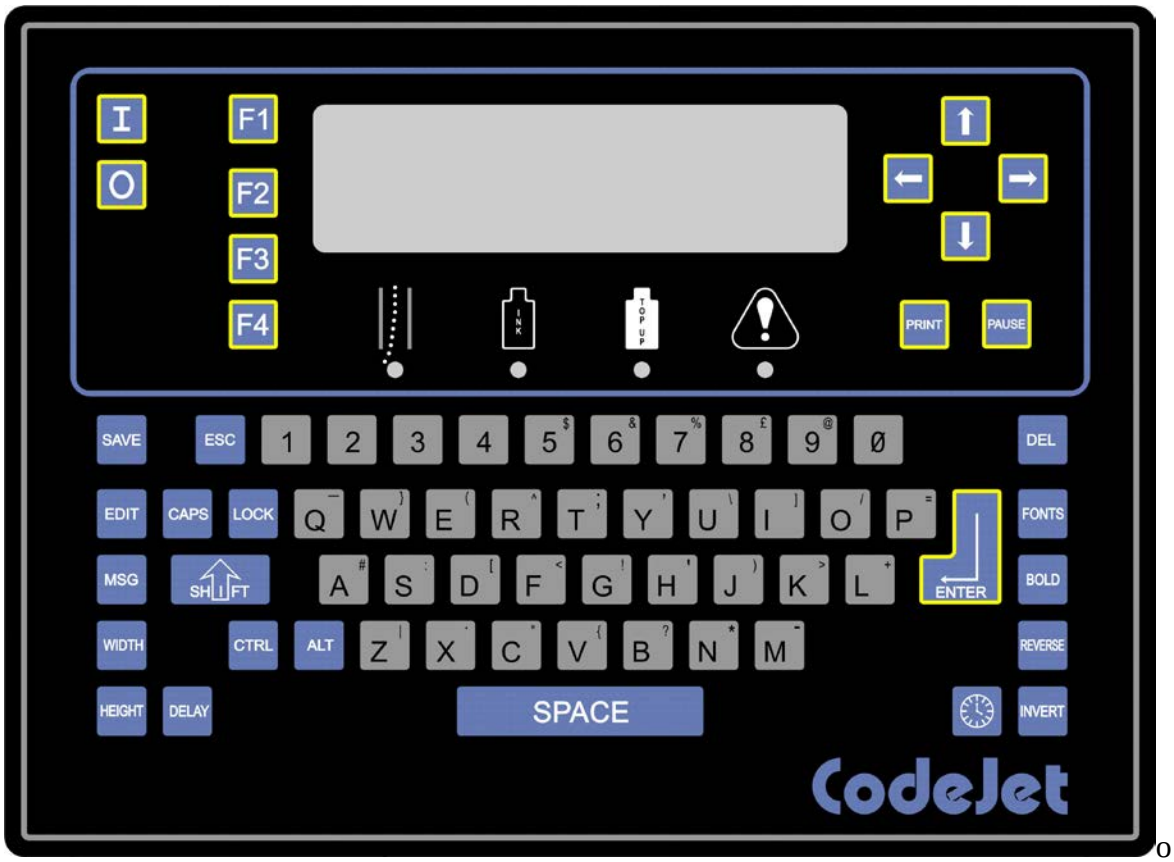


260 Plus

User Manual

CPUII

Revision 3.01 Software #V13_xx
11/01/2013



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C O D E J E T

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CE



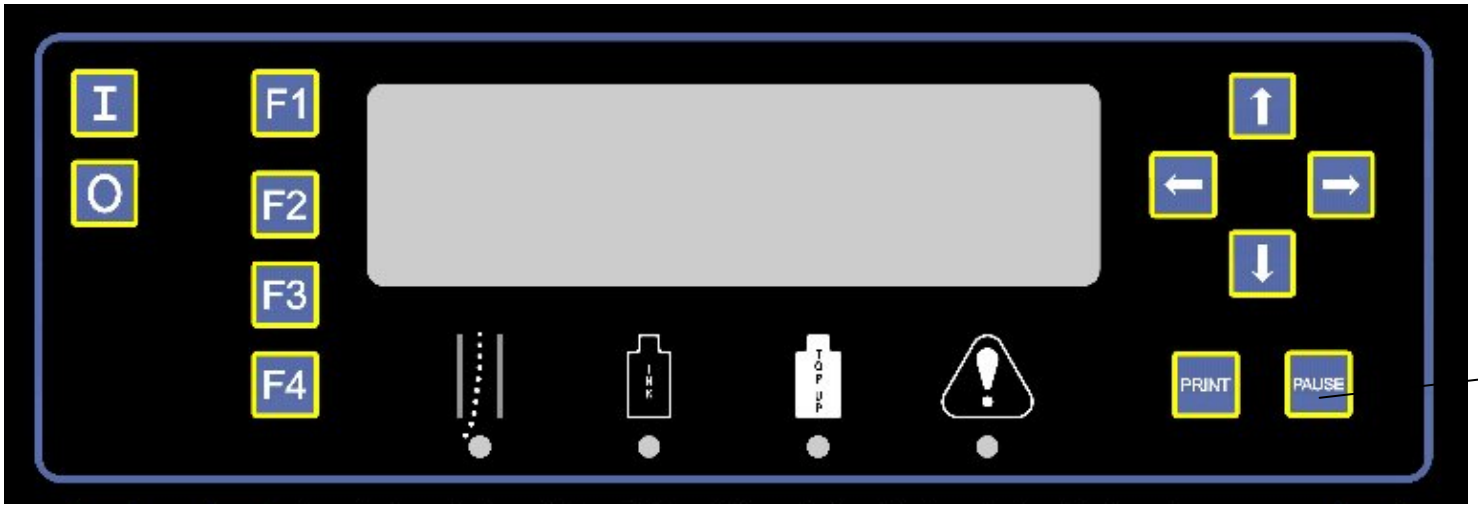
C+260 KEYPAD DISPLAY



Main Power

Print Key
Gives a manual print go

Pause Key
Disables the print



PRINTHEAD COVER ON/OFF
Indicates the status of print head cover on/off

(High voltage on/off)
(Deflector plates)

INK LOW LEVEL INDICATOR
Indicates an ink low condition (replace ink bottle)

TOP UP LEVEL INDICATOR
Indicates a top-up low condition (replace top up bottle)

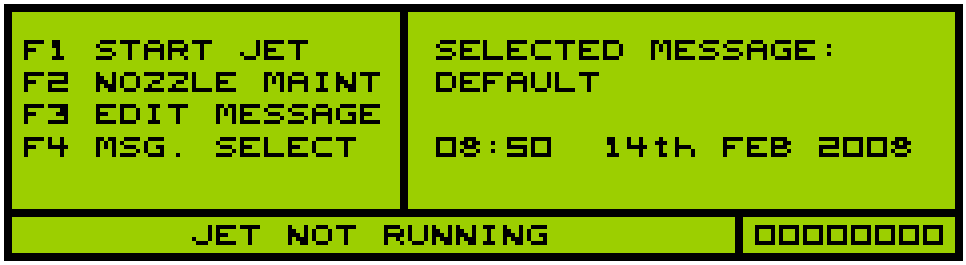
FAULT INDICATOR
Indicates a fault condition and is accompanied by a diagnosis on main screen of LCD

MAIN SCREEN FUNCTIONS

STARTING THE JET



Ensure that the coder is plugged into a power source and is switched On.
Push the main isolator switch on the left hand side of the coder to the On position.



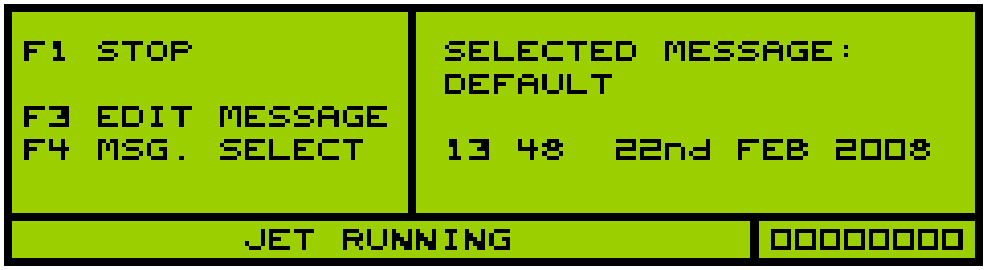
The following screen indicates that jet-starting procedure may proceed:



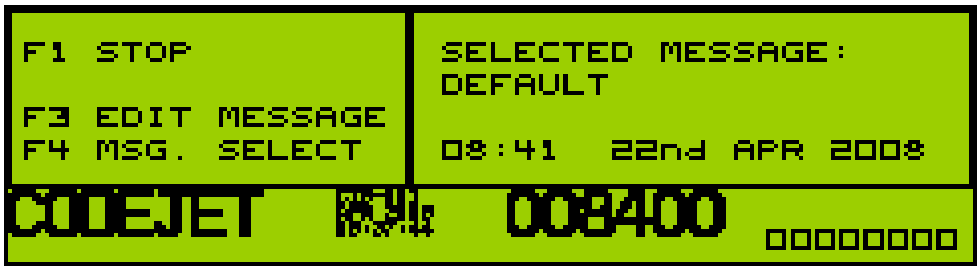
Press 

The pump will start, followed by the opening of the feed valve, the jet can be observed initially as a clear line from the nozzle to the gutter, the jet will turn black as all flushing solution is replaced by ink, a clicking sound will be heard as any air is purged out of the system, the start up procedure lasts approximately 30 seconds.

The following screen indicates a successful start up:



When the Print head cover is in place the screen will display the message being printed



Coding may now begin. Press V to enlarge message being printed



STOPPING THE JET

When stopping the jet for any reason, the Printer should always be shut down

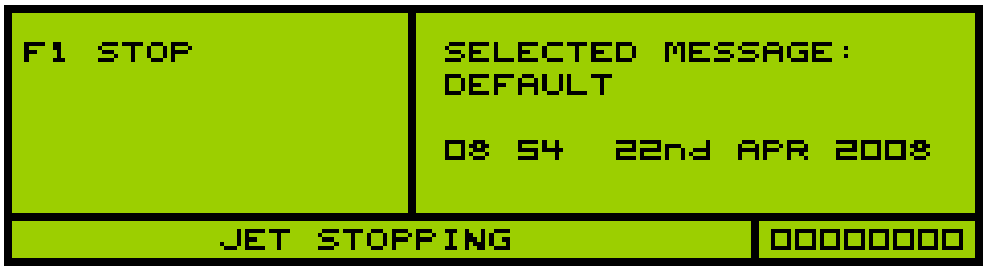
NEVER TURN OFF THE PRINTER AT THE MAIN SWITCH OR MAIN PLUG WHILE THE JET IS RUNNING.

The shutdown procedure is very important and should always be adhered to in order to avoid problems when restarting at the beginning of the next shift. This procedure takes approximately 5 minutes.

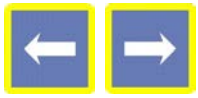


STOP THE JET

A clean stop (Auto Shut Down) Press F1 the jet will stop the printer will flush the lines and clear the gutter line in preparation for the next start, Wash Solvent can be applied to both the nozzle jewel plate and the gutter to aid the process this is also a good time to give the print head a general clean.



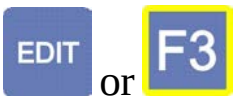
Wait for printer to display **JET NOT RUNNING** before turning power off.



ADJUSTING THE LCD CONTRAST

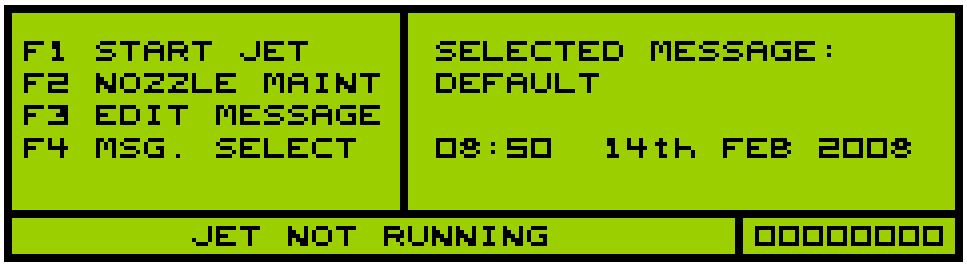
Either Press ← or → keys until the display looks sharp.
Do not hold down the key too long. Auto repeat will change speeds and change the contrast too quickly to be noticeable.

ENTERING AND EDITING MESSAGES



The Printer can print up to four lines of text in the following formats:

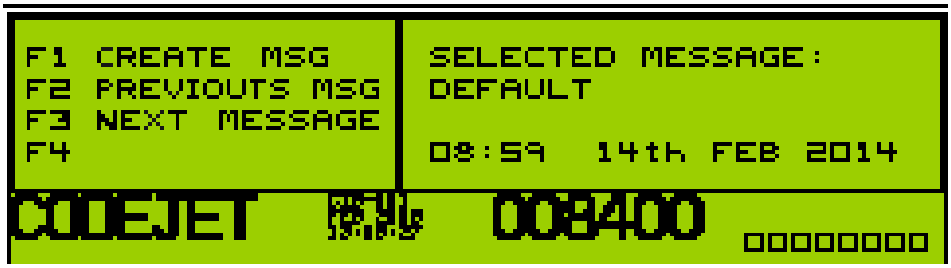
Fonts -	**Printed Dots**	
4 Lines of Text:	5 High	7 High
3 Lines of Text:	5 & 7 Plus	9 High
2 Lines of Text:	5, 7 & 9 Plus	11 High
1 Line of Text:	5, 7, 9 & 11 Plus	15 High, 17 High, 24 High, 32 High

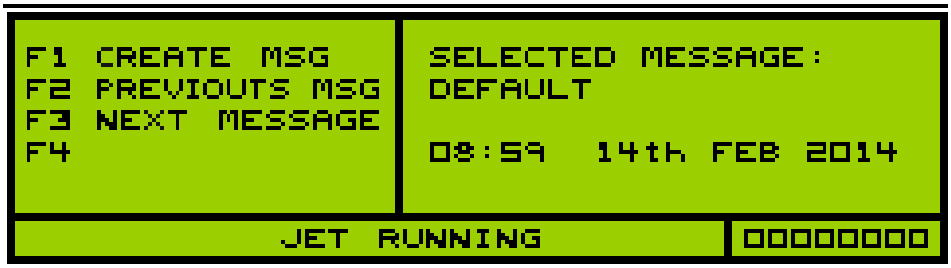


To edit an existing or enter a new message from the Main Screen:

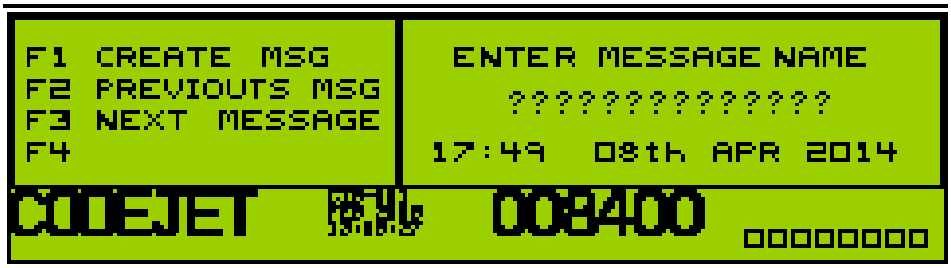
Press F3 or Press EDIT

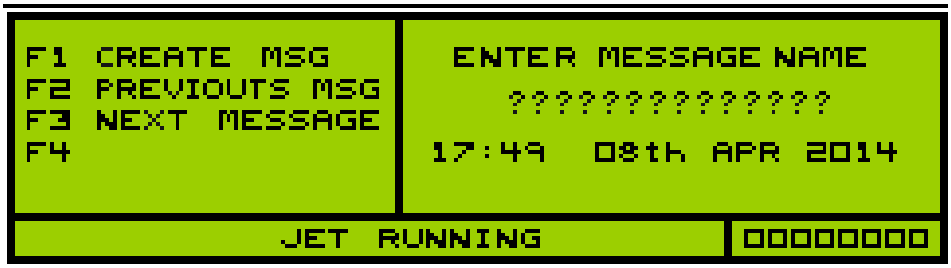
Screen displays:





A message name can be entered or use UP and DOWN arrow to select an existing message.



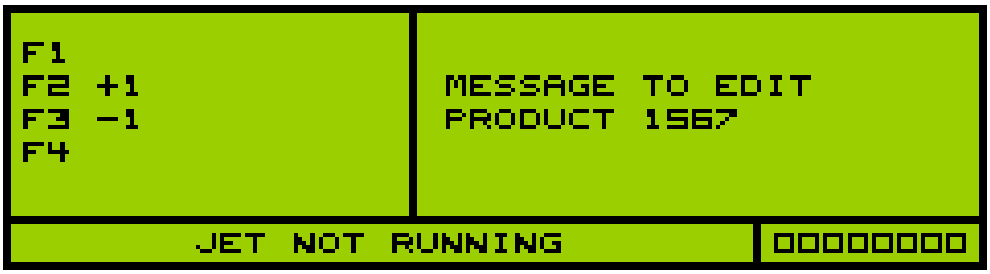


Or press F1 to enter a new name



Message Names

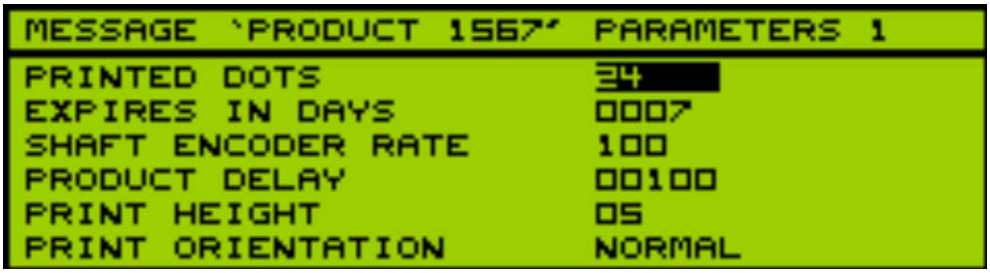
Messages are stored using names up to 16 characters in length this can be made up of Alpha Numeric characters these can be selected by direct name entry or via the up and down arrow keys to the right of the screen.



Press  Enter the message name E.g. Product 1567 Press 

Press  To backspace and retype the name.

The editor will permit changing the specific parameters for this message.



Press  Or  to change the value.  Or  to move between parameters. 
Will skip both parameters pages and start editing the message.

Printed Dots is the maximum number of dots to use while printing the message. NOTE: Using more dots than necessary will degrade the print speed of the Printer.

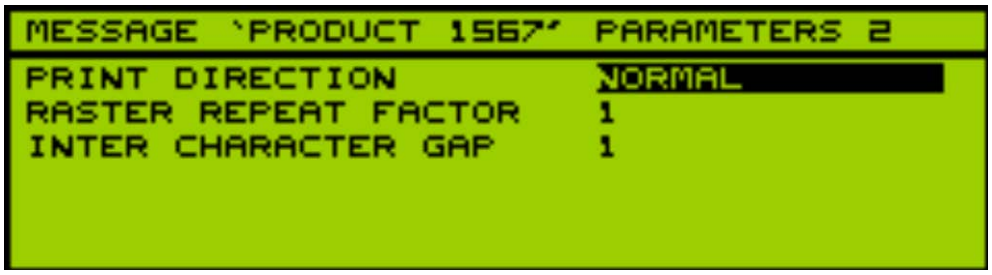
Expires in Days is the expiration to apply within this message.

Shaft Encoder Rate this sets the width of print. It is the divisor to apply with a shaft encoder. This value is directly affected by Printed Dots.

Product Delay is the amount of time or encoder pulses to wait before printing the message.

Print Height is the amount of high voltage used to deflect a drop of ink.

Print Orientation is whether to print the message right side up (NORMAL) or up side down (INVERTED).



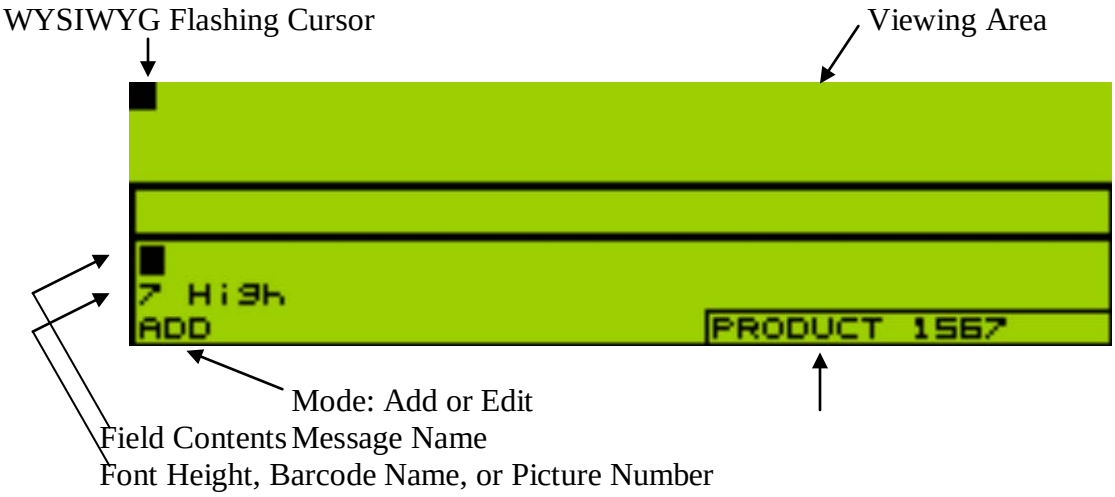
Print Direction is whether to print the message left to right (NORMAL) or right to left (REVERSE).

Raster Repeat Factor is a bolderization to be applied across the entire message.

Inter Character Gap is the number of dots to place between each printed character.

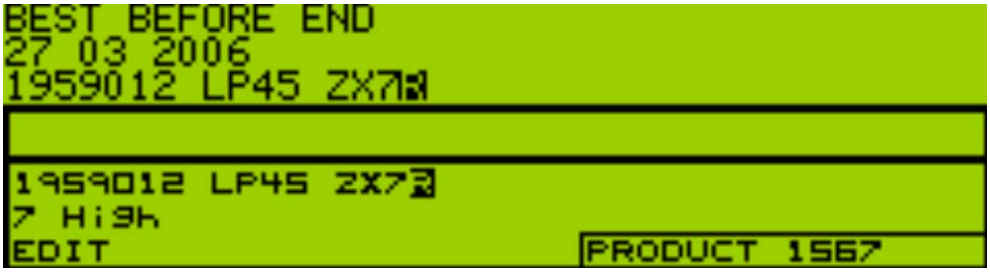
The Message Editor is WYSIWYG. Once the parameters have been filled, the display will show this screen.

If there is currently a message already programmed into the selected message number or name, the Screen will display that message.



To delete any letter from the text, position the cursor over the chosen character via the use of the ← and → then Press DEL

For example:



One Press on the DEL key would erase the letter R from third line; this could be replaced with the new required letter, then Press SAVE to store the message.

(1) To erase an entire field: Position the cursor on the first letter,
Press and hold ALT Press DEL. The field would then be erased, the new code could be programmed in, and the SAVE key pressed to store the changed message.

(2) To program in a complete new message with expiration date:
From the main screen, Press F3

Type **PRODUCT 1567**, then Press ENTER twice to accept the current parameters

Type **BEST BEFORE END**, then Press ENTER

Press and hold ALT Press Press ENTER

Type **1959012 LP45 ZX7R**, then Press ENTER twice to accept the current parameters.
Type **E**, Press **CAPS**, type **e**, Press **SPACE**, type **F**, Press CAPS type **f**, Press **SPACE**, type **20G**, Press CAPS, type **g**.



Press DEL Until **y** has been erased, as indicated in the field contents.

Press And hold ALT Press V to refresh the screen with translated time fields.



Press The SAVE key to Store the message.

PRINTING SPECIAL FONTS

The message editor permits dot addressable field positioning. The following key combinations can be used to move the cursor around the print area.

Right Arrow moves the cursor one dot to the right.

Left Arrow moves the cursor one dot to the left.

Up Arrow moves the cursor one dot up.

Down Arrow moves the cursor one dot down.

Ctrl Right Arrow moves the cursor eight dots to the right.

Ctrl Left Arrow moves the cursor eight dots to the left.

Ctrl Up Arrow moves the cursor eight dots up.

Ctrl Down Arrow moves the cursor eight dots down.

Alt Right Arrow moves the cursor to the end of the message.

Alt Left Arrow moves the cursor home (top left of message).

Enter move the cursor to the next line based on the font height and the left position of the field above.

Font key is used to select a font. The font selection is rotary where the choices are by fit capability.

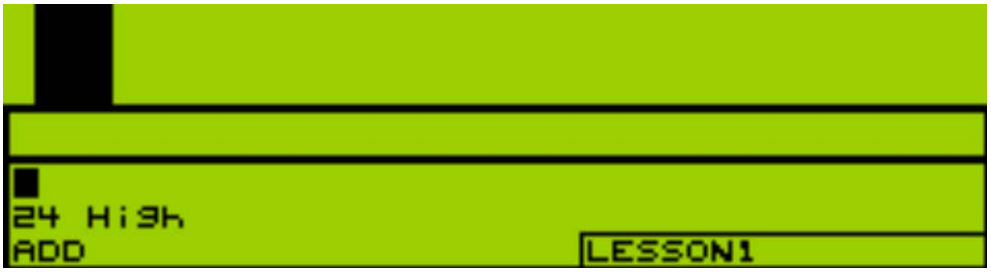
Create a new message and name it LESSON1.

The Key sequences are:

EDIT, L, E, S, S, O, N, 1, ENTER

Move the Cursor to the right by eight dots Press and hold CTRL Press

Select the 24 High font by pressing the FONTS five times.



Type the numbers 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0.
Did you notice the screen scroll to show the last number that was typed?

Press ← One time. The cursor will be blinking on the last zero (0).
Press And hold ALT Press FONTS.



The text field became a UPC Barcode. Note the font name changed to UPC/EAN.
Press And hold ALT Press FONTS., you can scroll through all of the barcodes that are in the Printer.

Press The → twice to move past the barcode.

Press The FONTS key to select 5 High.

Type 'THIS IS A'. Press the ENTER key.
Press The FONTS key to select 7 High.

Type 'UPC BARCODE'. Press the ENTER key.
Press The FONTS key to select 9 High.

Type 'PRINTING'. Press the ENTER key.

Notice that the cursor moved to the top line.

Press the BOLD key. The text doubles in width. The bolderization will increase up to a magnification of 5 then roll back to 1.

Press the INVERT key. Notice the text field inverts and prints upside down.
Press the REVERSE key. Notice the characters in the text field reverses and prints back to front.



Press The SAVE key to Store the message.

NOTE: Bolding or double dotting a character, word or message will increase the overall appearance and visibility, but will also increase the message in length, making it more difficult to fit into small target areas on the product to be coded.

5 DOT HIGH SINGLE DOT
5 DOT HIGH DOUBLE DOT

7 DOT HIGH SINGLE DOT
7 DOT HIGH DOUBLE DOT

12 DOT HIGH SINGLE DOT
12 **DOT HIGH DOUBLE DOT**

16 DOT HIGH SINGLE DOT
16 DOT HIGH DOUBLE DOT

24 DOT HIGH SINGLE DOT
24 DOT HIGH DOUBLE DOT

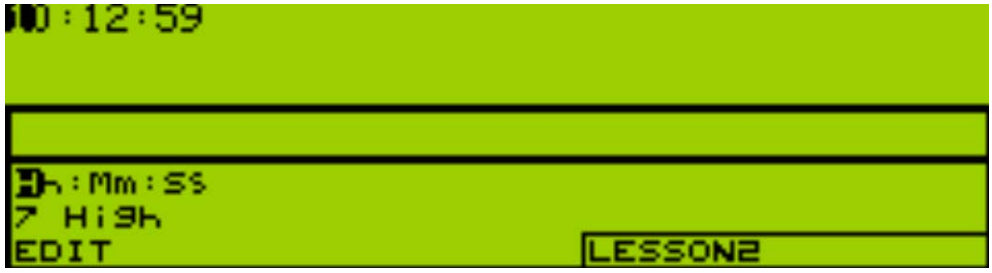
PRINTING REAL TIME CLOCK INFORMATION

All date, time, Julian, and expiration utilize the real time clock in the Printer. The information is retrieved using the key.
When editing Time, Date, or Julian fields Press and hold ALT Press V to refresh the screen with the actual translated values.

Create a new message and name it LESSON2.

The Key sequences are:

Press EDIT L, E, S, S, O, N, 2, ENTER
Press Notice that the current time is automatically entered as Hour, Minutes, and Seconds.



Notice the field contents are Hh:Mm:Ss. Here are all of the translated characters for a time field.

TIME

H – Tens of hours
h – Unit of hours (CAPS + H)
M – Tens of minutes
m – Units of minutes (CAPS + M)
S – Tens of seconds
s – Units of seconds (CAPS + S)
Z - Shift Code character

E.G Hh:Mm = 09:30

Characters, which do not appear in this list, will be printed as entered.

Press  to advance down one line.

Press and hold  Press  Notice that Month, Day, and Year are entered automatically. **Mm/Dd/Yy**



Notice the field contents are Mm/Dd/Yy. Here are all of the translated characters for a date field.



CURRENT DATE

M- Tens Digit of month
m – Units Digit of month
D – Tens Digit of day of month
d – Units Digit of day of month
Y – Tens Digit of year number
y – Units Digit of year number
A - 1st character of alpha month
B - 2nd character of alpha month
C - 3rd character of alpha month
W,w – Day of week (Sun= 1)
Z - Shift Code character

Examples **Mm/Dd/Yy = 11/05/13** or **Dd ABC 20Yy = 05 NOV 2013**



EXPIRATION DATE

F - Tens Digit of month of Expiration*
f - Units Digit of month of Expiration*
E - Ten Digit of day of Expiration*
e - Units Digit of day of Expiration*
G - Tens Digit of year of Expiration*
g - Units Digit of year of Expiration*
a - 1st character of Expiration alpha month*
b - 2nd character of Expiration alpha month*
c - 3rd character of Expiration alpha month*

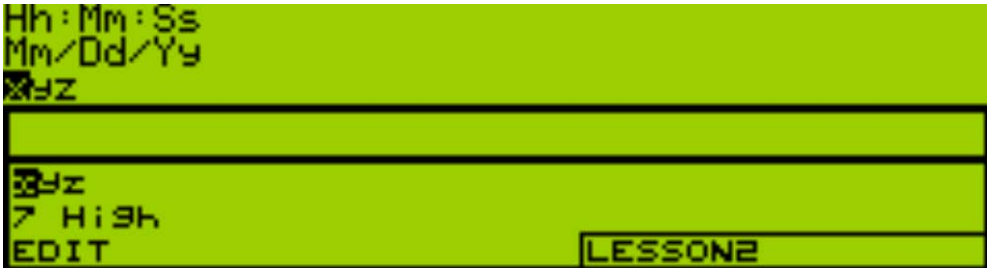
Examples **Ff/Ee/Gg = 11/27/13 or Ee abc 20Gg = 27 NOV 2013**

* NOTE See Message Parameters Screen 1, Expires in Days.

Characters, which do not appear in this list, will be printed as entered.

Press  to advance down one line.

Press and hold CTRL Press notice that Expiry date Julian Day of Year is entered automatically edit this and replace **Ff/Ee/Gg with xyz**.



Notice the field contents are xyz. Here are all of the translated characters for a Julian field.

JULIAN DATE

W - Tens of week number
w - Units of week number
x - Hundreds of Julian day of year
y - Tens of Julian day of year
z – Units of Julian day of year
E - Tens of European Julian week, The first full week of the year is '01'.
e - Units of European Julian week
I - Tens of ISO Julian week, the first day of the year is '01' until Sunday, then it is week '02'.
i - Units of ISO Julian week
N - Tens of Non-Standard Julian week, every seven days is a week.
n - Units of Non-Standard Julian week
Z - Shift Code character

Examples xyz = 365 or xyzZ = 2651 for day of year and shift-code

Characters, which do not appear in this list, will be printed as entered.

Press the SAVE key to Store the message.

PRINTING BARCODES



Most barcodes can support data from multiple field types. The following walk through will guide you into the complex means of printing multiple data type in a single barcode.

Barcodes in the editor work a little strange to the previous method. When you take a closer look, the criteria are exactly the same.

The barcodes which are available:
UPC or EAN barcodes. 12 or 13
Interleaved 2 of 5 2:1 aspect ratio.
Interleaved 2 of 5 3:1 aspect ratio.
Interleaved 2 of 5 5:2 aspect ratio.
Code39 2:1 aspect ratio.
Code39 3:1 aspect ratio.
Code128 Self Compression.
Code128 subset B.
Code128 subset C.
QR
Data Matrix

Create a new message and name it LESSON3.

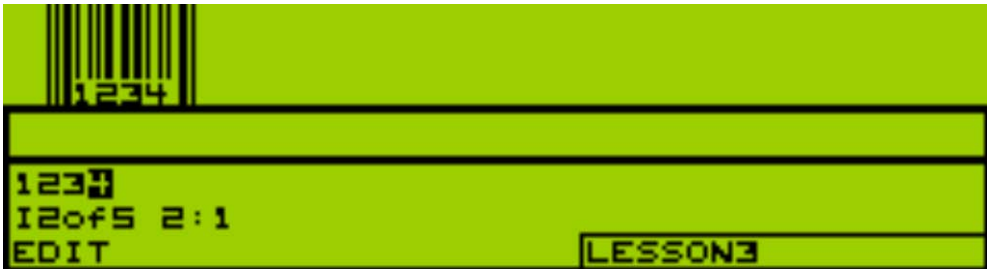
The Key sequences are:

Press EDIT, L, E, S, S, O, N, 2, ENTER

Press the FONTS key five times to select 24 High. Selecting a font size does not create a field. Some information must be typed before the new font becomes our desired barcode height.

Type '1234', then press ← the cursor must be on a character in the field to convert it into a barcode.

Press and hold ALT Press FONTS key twice. I2of5 2:1 will be selected.



Press → to begin appending the barcode with the variable fields.
Press 🕒 key to add the current time.
Press → until the ':' (colon) is highlighted, then Press DEL.
Press → until the next ':' (colon) is highlighted, Press DEL three times.
Press → once to append another variable field.
Press and hold ALT Press L notice that the incrementing number has been initialized to '0001'. It will start counting at one and add one on every print.
Press → six times to append one more field.
Press and hold ALT Press 🕒.



Press → until the first '/' (slash) is highlighted, Press DEL.
Press → until the next '/' (slash) is highlighted, Press DEL.
Press → until the last '**D**' is highlighted, type a '**Z**'.



Now you have an I2of5 barcode with a constant '1234', Hour, Minute, Incrementing number, Month, Day, Year, and Shift Code.

Press and hold ALT Press V now the barcode contains the current time and variable information.



Press the SAVE key to Store the message.

PRINTING INCREMENTING & DECREMENTING NUMBERS



Incrementing Numbers
Press and hold ALT Press L (+) key.

A typical Incrementing code would be shown on the editor screen as:
0001

The Printer would print an incrementing number for ex: 0001 and on subsequent prints
0002 0003

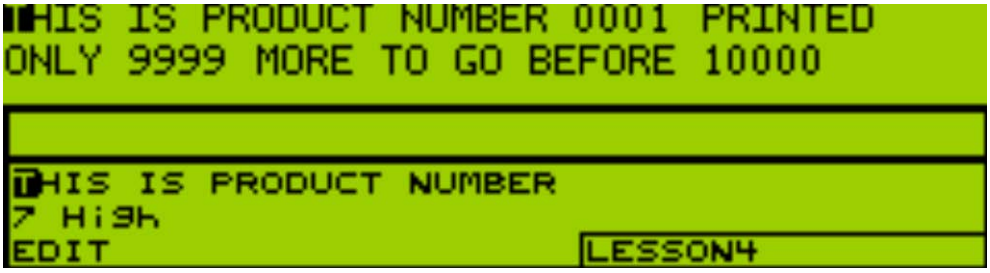


Decrementing Numbers
Press and hold ALT Press M (-) key.

A typical Decrementing code would be shown on the editor screen as:
9999

The Printer would print an decrementing number for ex: 9999 and on subsequent prints
9998 9997

The view inside of the WYSIWYG editor:



SERIAL BUFFER



Serial buffers are for variable data that comes from a computer. There are ten buffers of thirty-four characters in length. In referencing a serial buffer, the format must indicate which buffer to use and how many characters.

In order to be able to print using the RS232 serial Buffer uses the following procedure.

Press and hold ALT Press S



Notice the field content has the two digit buffer number, followed by text, which does not appear in the WYSIWYG. Serial Buffer number 1 does not contain any characters. Delete the text characters to suit length of Serial string to required

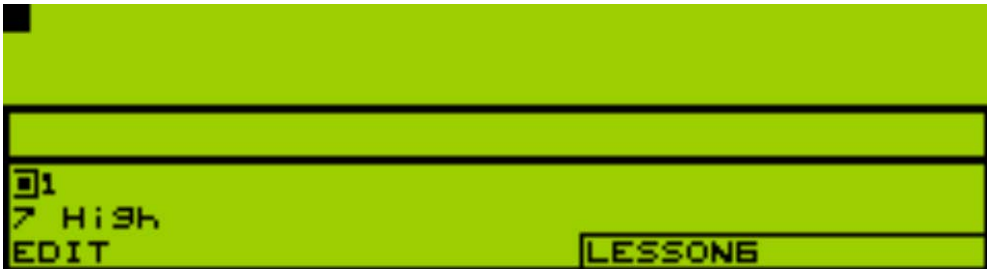
Transmit ^SB01TEXT STRING (cr)

LOGOS and PICTURES



Logos must be downloaded via the serial port as described in the Programming Manual. Once downloaded, the logo can be printed in a message.

Press and hold ALT Press P



The editor automatically creates a picture field, selecting Logo number 1 (01).
Logos and Pictures are numbered 01 to 99. In this example we have downloaded a picture to Number 10. This makes it easy to edit by typing a 1.



The editor has located and displayed Picture #10. As you notice, the extra "1" is displayed after the logo. Press → once then Press DEL to eliminate the extra digit.



To select the Picture field Press →.



Notice that the Font type displays PICT 10, indicating that the Field is Picture number 10.



COPY AND PASTE MESSAGE

The CodeJet C+260 can copy and paste a message.
Press and hold ALT Press MSG
Select the source message using the Function keys, Arrows keys, or typing the name.

Press ENTER

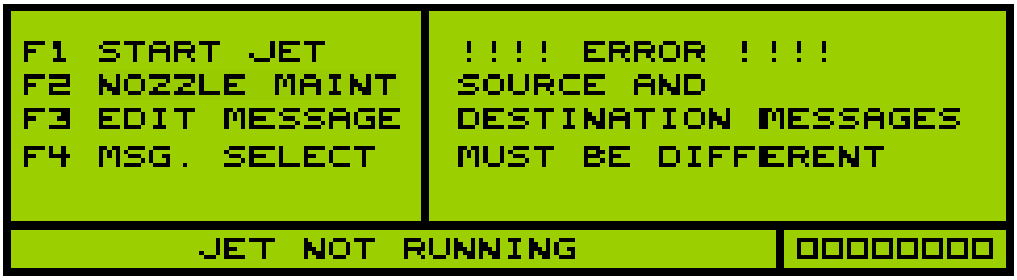


Select the destination message by typing the new name.

Press ENTER



The message will now be copied including the message parameters
If the Source and Destination are the same, the printer will display this message

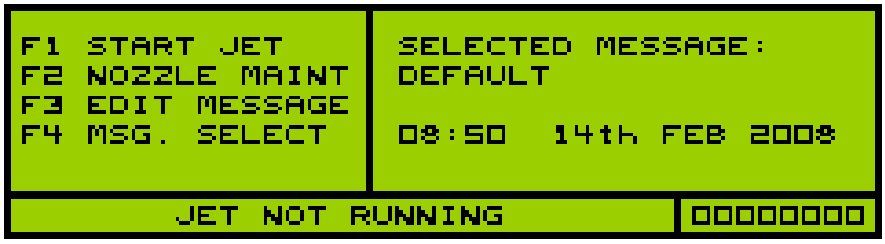


SELECTING A MESSAGE TO PRINT



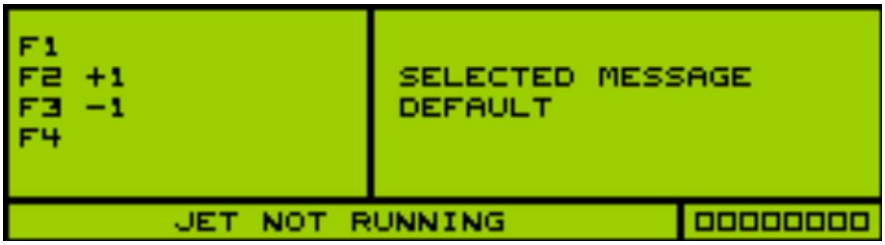
The Printer has the ability to store a minimum of 63 different messages of 4000 characters per message as standard. The maximum depends upon the actual number of characters in each message.

From the Main Screen:



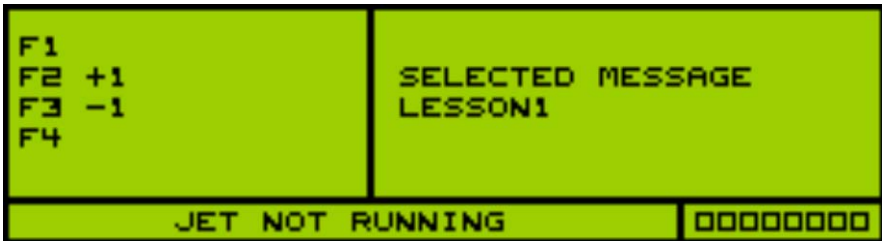
To select the required message:

Press F4 the screen will display the following information:



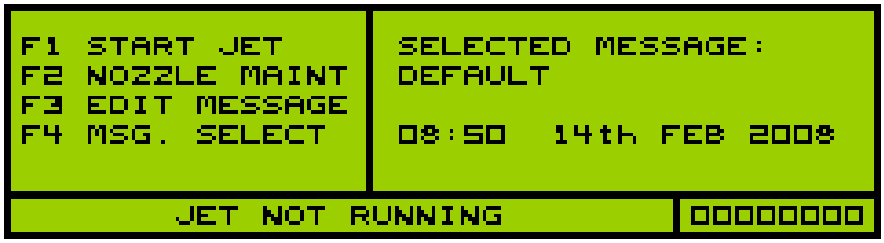
The new message can be selected by the use of directly typing the name.

or Press F2 F3 ↑ ↓ to scroll through the list of messages..



When the required message name is displayed, Press ENTER to select the message, or Press ESC to abandon the selection.

The main screen will show the new message number as selected.



DELETING A MESSAGE

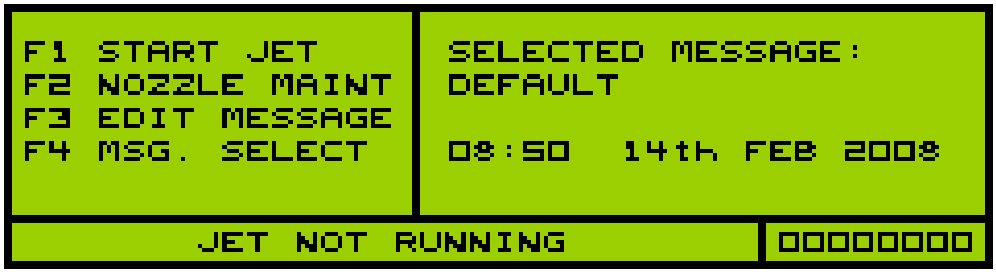


The message storage area can become filled to capacity. To remove an old message, Press and hold ALT Press DEL

The main screen will ask for which message to delete by displaying the current selected message. If the current selected message is deleted, DEFAULT is automatically selected. If DEFAULT does not exist, Print is disabled until a valid message is selected and Printing is manually re-enabled.



The message can be selected by the use of directly typing the name.
or Press F2 F3 ↑ ↓ to scroll through the list of messages..
If the message to delete does not exist, the following error message is displayed.



ENABLE PRINTING

Press PRINT

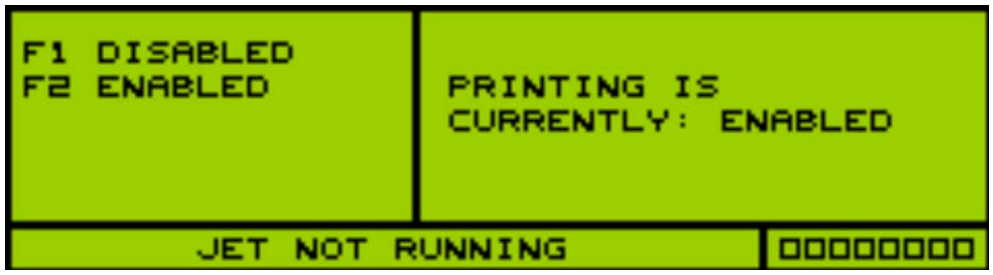
DISABLE PRINTING

Press PAUSE

Enable Disable Menu

Press and hold CTRL Press D

When changing messages during the traversing of products before the Printer it may become necessary to disable printing. To disable or enable printing,
Press PAUSE to disable or Press PRINT to enable,
Or use Press and hold CTRL Press D use F1 or F2 to toggle



When printing is disabled, the ENTER key MUST BE PRESSED before it will be disabled. Printing is enabled immediately when F2 is pressed.

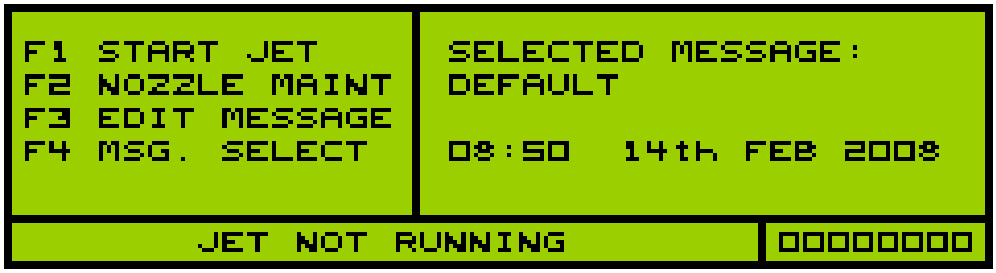
INDUCE A MANUAL PRINT TRIGGER

A manual print trigger can be induced Press PRINT if the print is enabled, When the Jet is running, the product counter will increment for each induction. If latched repeat print is enabled, it will start continuous printing.

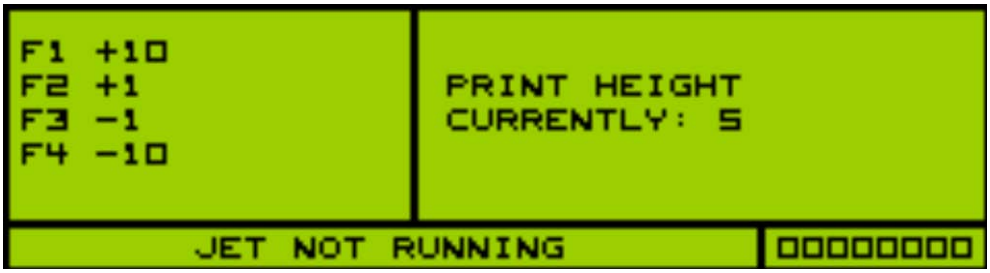
TEMPORARILY ADJUSTING MESSAGE HEIGHT

The height of the print can be adjusted and affects the vertical distance between printed dots.

From the Main Screen:



Press HEIGHT



The screen will display the current height setting; this can be adjusted up and down with direct number entry or the use of F2 F3 or via the ⬆ or ⬇ to the right of the screen.

The range is one (1) to ten (10).

When the required setting is obtained Press ENTER key to set.

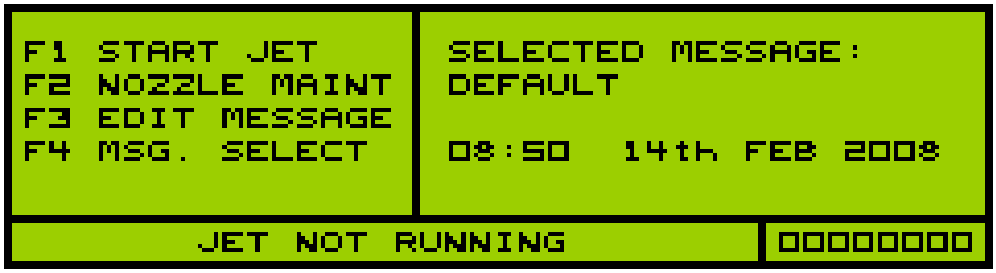
Note:
The printed character height can also be altered by moving the printhead closer to the substrate to reduce the height or further away to increase the height. Minimum distance 5mm – maximum 15mm (Optimum distance 10mm).

To save the changes permanently, reselect the same message. Press MSG then ENTER

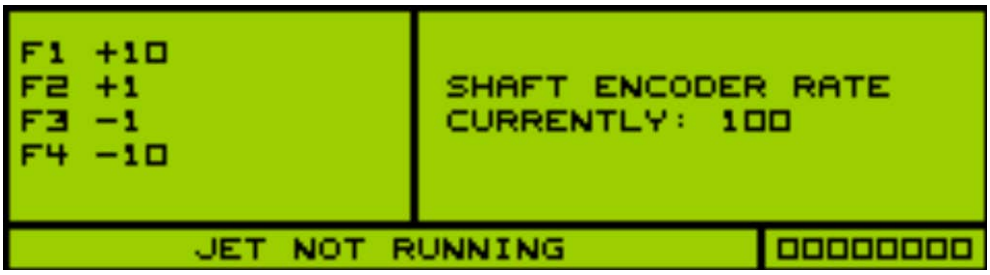
TEMPORARILY ADJUSTING THE PRINT WIDTH

The length of a message depends on the width of the characters. The larger the number of the width setting, the wider the gap between the columns of every character.

From the Main Screen:



Press WIDTH



The screen will display the current width setting, this can be adjusted up or down with direct number entry or the use of F1 F2 F3 F4 or via the ↑ or ↓ to the right of the screen.

The faster the speed of the product to be coded, the lower the required width setting.

The range is one (1) to two hundred fifty five (255).

When the required setting is obtained Press ENTER key to set.

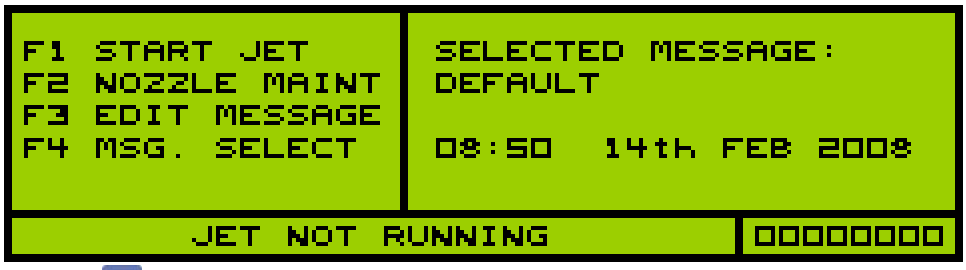
Note: To save the changes permanently, reselect the same message. Press MSG then ENTER

TEMPORARILY ADJUSTING PRODUCT DELAY



A message may be delayed so that printing starts at a fixed interval after the product sensor has been triggered in order to hit a specific target area of the product.

From the main screen:



Press 



The screen will show the current delay setting, this can be adjusted up and down with direct number entry or the use of the F1 F2 F3 F4 or via the ⬆ or ⬇ to the right of the screen.
Minimum setting being 10, maximum being 10,000.

When the required setting is obtained Press 

key to set.

Note:
The printed character Delay can also be altered by moving the product detector closer, further away from, before of after printhead.

To save the changes permanently, reselect the same message. Press 

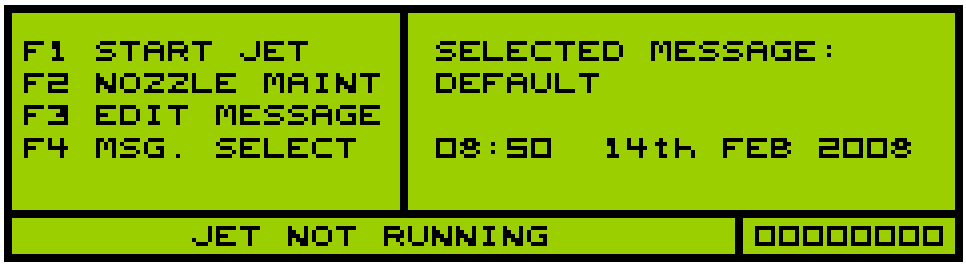
then 

TEMPORARILY REVERSING THE MESSAGE

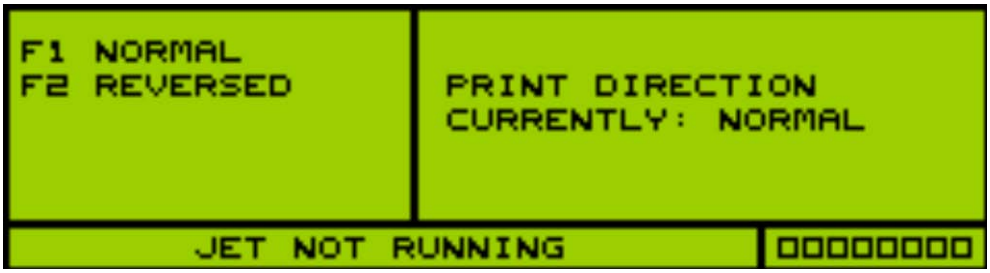


The printed characters can be reversed to suit a product traveling left to right or vise versa.

From the main screen:



Press 



The screen will display the current orientation; this is altered to the other state via the 



keys

When the desired state is displayed, press 

key to set

Note:
A change in reverse mode can invariably affect the invert status resulting in the need to change the invert to its other state
The reversal of the printed characters can also be attained by spinning the printhead 180 degrees.

To save the changes permanently, reselect the same message. Press 

then 

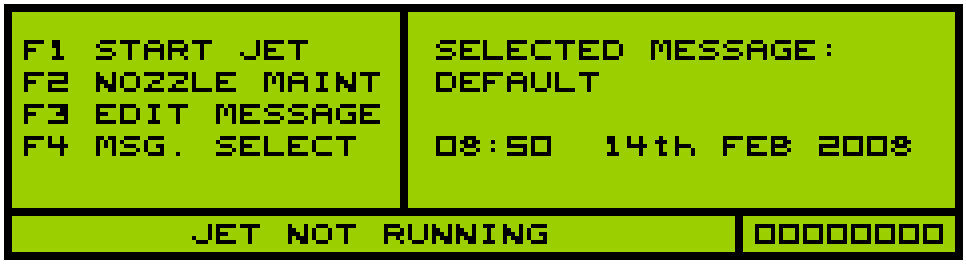
.

TEMPORARILY INVERTING THE MESSAGE

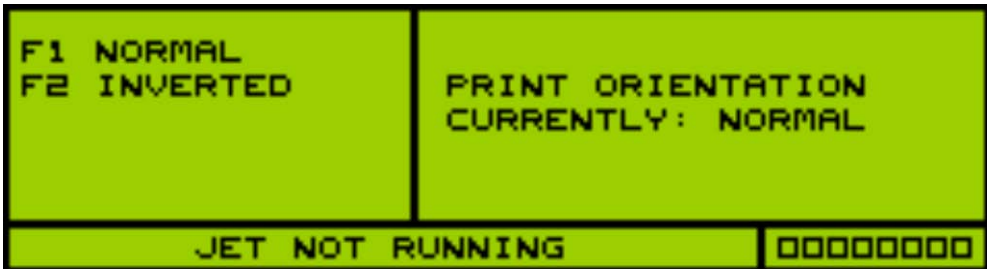


The printed characters can be inverted (turned upside down), to suit a product traveling left to right or vice versa.

From the main screen:



Press 



The screen will display the current orientation; this is altered to the opposite state via the 

keys

When the desired state is displayed, Press 

key to set.

Note:
A change in invert mode can invariably affect the reverse status resulting in the need to change the reverse to its other state.

Spinning the printhead 180 degrees can also attain the inverting of the printed characters.

To save the changes permanently, reselect the same message. Press 

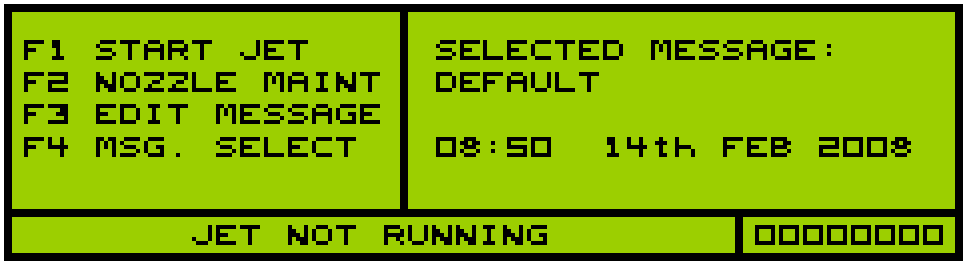
then 

TEMPORARY INTERCHARACTER GAP



There is a standard 1-column gap between characters, which may be increased up to 9 columns.

From the Main Screen:



Press and hold ALT Press G

The screen will now show the following:



The inter character gap can be adjusted via direct number entry or the F2 and F3 keys or via the up or down arrow keys to the right of the screen.

When the required gap setting is displayed, Press ENTER key to set.

Note: To save the changes permanently, reselect the same message. Press MSG then ENTER

TEMPORARY BOLDERIZATION

The Bolderization of the entire message can be changed temporarily Press BOLD



The bolderization can be adjusted via direct number entry, the F1 F2 F3 F4 or via the ↑ or ↓ to the right of the screen.

When the required bolderization is displayed, Press ENTER key to set.

Note: To save the changes permanently, reselect the same message. Press MSG then ENTER.

TEMPORARY EXPIRATION

The Expiration (in days) of the current message can be changed temporarily by holding Press and hold CTRL Press E on the Main Screen.



The expiration can be adjusted via direct number entry, the F1 F2 F3 F4 or via the ↑ or ↓ to the right of the screen.

When the required expiration is displayed, Press ENTER key to set.

Note: To save the changes permanently, reselect the same message. Press MSG then ENTER.

ZEROING THE PRODUCT COUNT



The product count on the Main screen can be reset to Zero
Press and hold CTRL Press Z the count is reset without a dialog or question.

SELECTING AN ALTERNATE LANGUAGE



The language for the prompts and date can be selected by Press and hold CTRL Press L



The current languages at the time of this manual are English and Spanish.
Press F1 to select English or F2 for Spanish. F3 for French F4 for future languages

CHANGE CURRENT DATE AND TIME

The current date and time are changed by Press key.



Type the current hour (hh), minute (mm), day of month (DD), month (MM), year (YY), and day of week (d). Day of week is 1 for Sunday to 7 is Saturday.

Press ENTER to accept the changed time or Press ESC to abandon.

SHIFT PERIODS AND CODES

From the main screen, Press and hold CTRL Press S the following screen will display



Four periods are displayed, sorted by time.
As shown above, the periods have not been defined. The default is 06:00 with a letter of 'A' and 15:00 with a letter of 'B' (two shifts).

To define the first shift at 7:59, type **0**, **7**, Press ↓ type **5**, **9**.

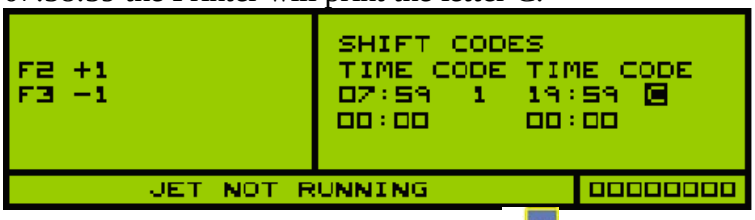


To define the letter for the shift as **1**; press Press ↓ type the number one (**1**).
With only one shift defined, the Printer will always print a one.



Press ↓ to move the second shift.

Type **1**, **9**, ↓, **5**, **9**, Press ↓ **C**. to define the second shift at 19:59 with a letter of C.
Between 07:59:00 and 19:58:59 the Printer will print the letter 1. Between 19:59:00 and 07:58:59 the Printer will print the letter C.



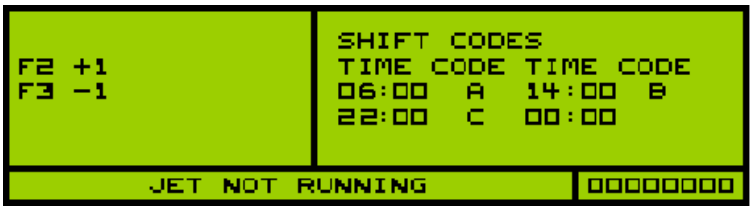
When defining shift codes the Press ENTER key will save and sort the shifts. The ESC key will abandon any changes. A **SPACE** in the shift letter will remove the shift and ignore the time for start of shift.

To Enter Shift Code into the message Editor refer to Julian Date Code Page 17

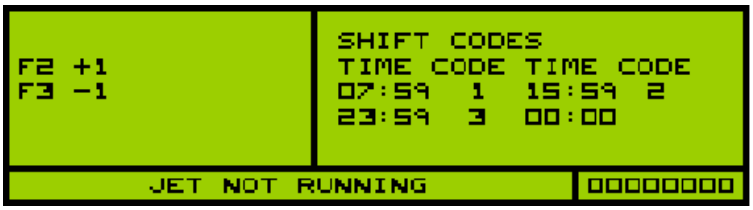
Example Of a 12-hr 2-shift pattern starting at 8am
Printing A & B with shift change over at 8pm



Example Of a 8-hr 3-shift pattern starting at 6am
Printing A , B & C with shift change over's at 2pm & 10pm



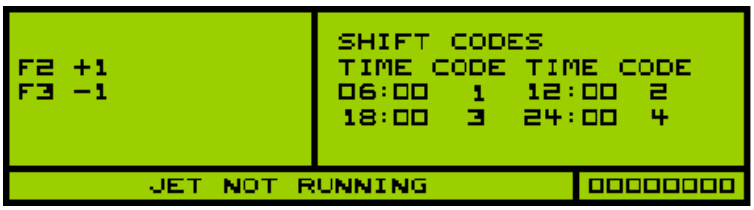
Example Of a 8-hr 3-shift pattern starting at 07:59am
Printing 1 , 2 & 3 with shift change over's at 3:59pm & 11:59pm



Example Of a 6-hr 4-shift pattern starting at 6am
Printing A, B, C, & D with shift change over's at 12pm 6pm & Midnight



Example Of a 6-hr 4-shift pattern starting at 6am
Printing 1, 2, 3, & 4 with shift change over's at 12pm 6pm & Midnight



Example Of a 12-hr 2-shift pattern starting at 12am
Printing A & P with shift change over at 12pm



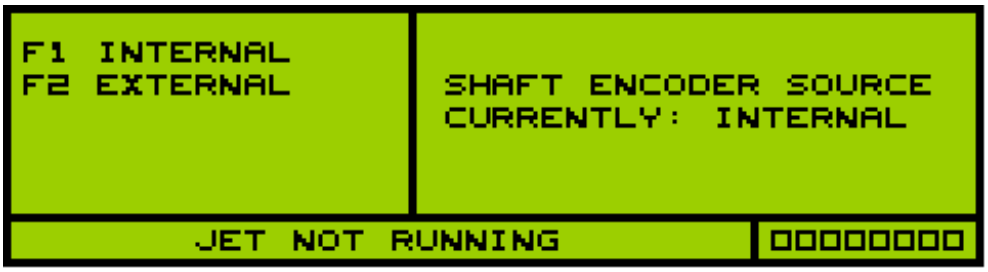
Example Of a 6-hr 4-shift pattern starting at 6am
Printing M, A, E, & N with shift change over's at 12pm 6pm & Midnight



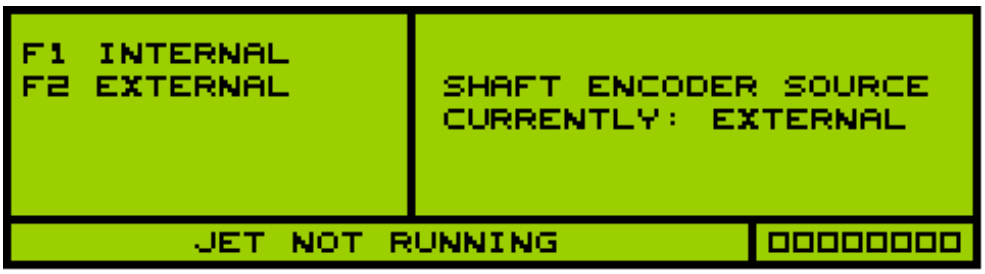
SHAFT ENCODER SOURCE



The Printer has two sources for the shaft encoder. To change the source, Press and hold CTRL Press WIDTH



Press F1 to select the internal shaft encoder (timer) or Press F2 to select the external shaft encoder and wheel.

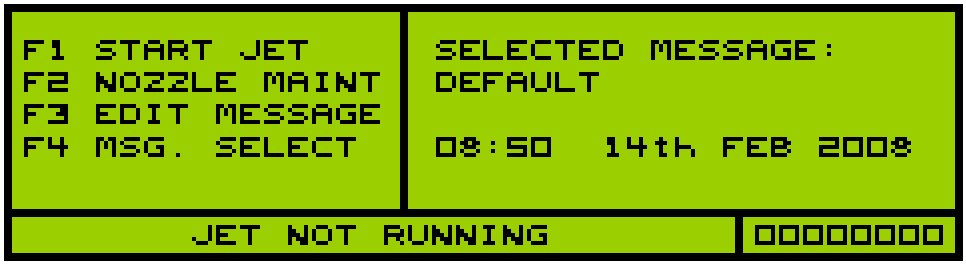


OPERATING IN CONTINUOUS PRINT MODE



This feature is for applications where the Printer is required to print onto a continuous substrate or extrusion. When configured to operate in this mode the Printer prints automatically and at regular intervals, the duration of which is programmable. The duration of the interval between prints can be set in two ways, either as a measure of time (Timed) or as a measure of distance (Encoder).

From the main screen:



Press and hold ALT Press WIDTH



The screen will display the current status; this can be altered via the F1 F2 F3 F4 keys.

When the required mode is selected Press ENTER key to set.

KEY	MODE	FUNCTIONALITY
F1	**OFF**	**The photocell must be triggered for each print.**
F2	**LATCHED**	**the photocell must be triggered once to continuous print. Uses Repeat Print Delay.**
F3	**TIMED**	**the photocell must be blocked for continuous print. uses the full product delay.**
F4	**ENCODER**	**the photocell must be blocked for continuous print. uses 1/10th of the product delay.**

REPEAT PRINT DELAY



Repeat print delay is used in the Latched repeat print mode. When the photocell is triggered, the Product delay is used, and then each subsequent print uses Repeat Print Delay.

To alter the spacing between each reprint, Press and hold ALT Press DELAY

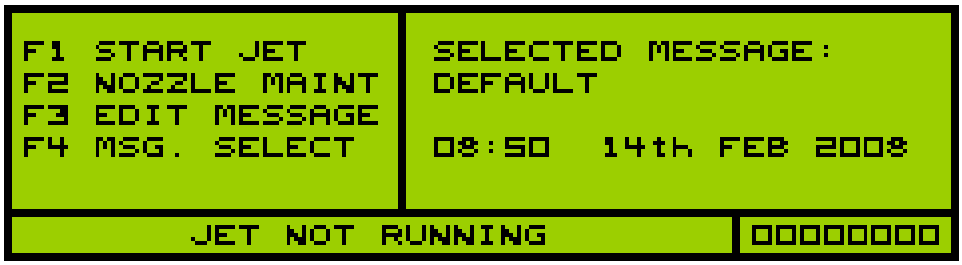


The repeat print delay can be adjusted via direct number entry, or F1 F2 F3 F4 keys, or the ⬆ or ⬇ keys to the right of the screen.

When the repeat print delay is displayed, Press ENTER key to set.

Start / Stop Commands

Press **F1** **Start the Jet**

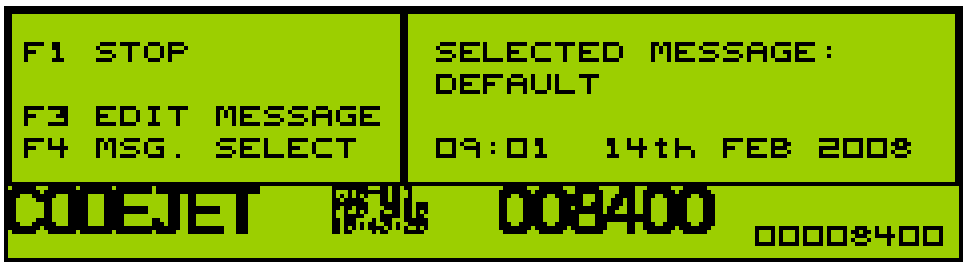


Press **ALT PRINT** **System-Warm up Mode**

Ink pump runs 3.1.Bar systems monitors Viscosity and ink Levels no ink jetted through nozzle.

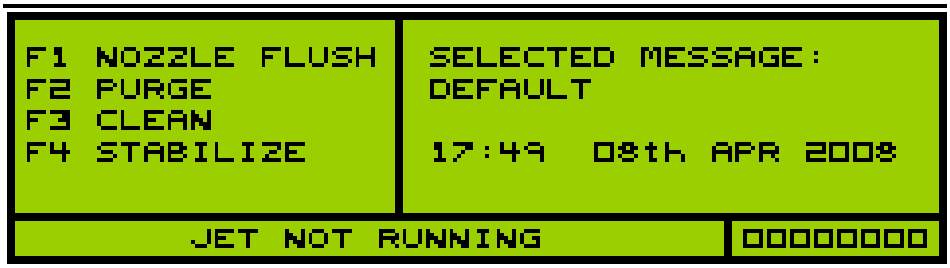
Press **F1** **Shutdown**

Jet is stopped no solvent is added during shutdown sequence.



Press **F2** Jet Not Running **Nozzle Maintenance**

Nozzle Maintenance gives four options for cleaning the nozzle



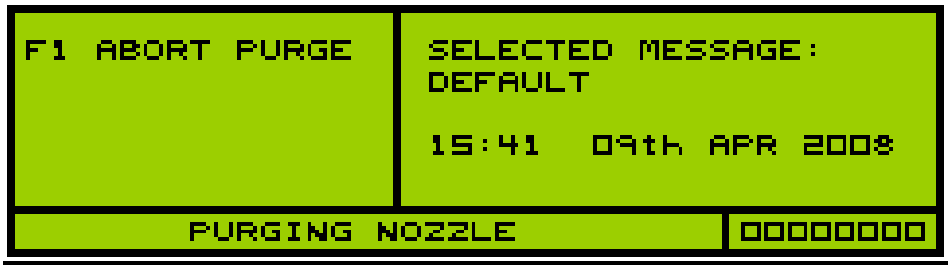
Press **F1 Nozzle Flush** Pump runs 3.1 Bar return valve opened and back pressure on nozzle jewel plate used to clear partial blockages on the nozzle jewel plate solvent is applied to front of nozzle whilst in flushing mode.

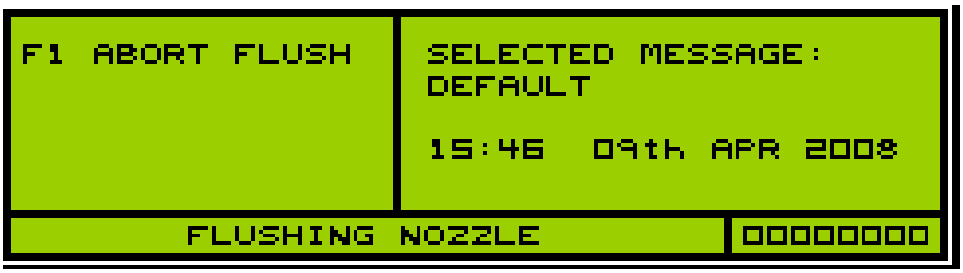
Press **F2 Purge** Pump runs 3.1 Bar return & feed valve opened ink pulled from mixer tank via Venturi cleans the inside of the nozzle body and back pressure on nozzle used to clear partial blockages on the nozzle jewel plate solvent is applied to front of nozzle whilst in purging mode

Press **F3 Clean** Pump runs 3.1 solvent pulled from top-up bottle to nozzle then used to clean nozzle repeated us of this command will lower ink viscosity

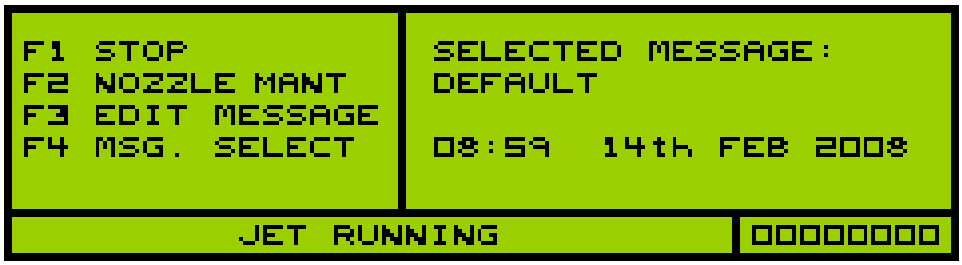
Press **F4 Stabilize** Pump runs 3.1 Bar return & feed valve opened ink pulled from mixer tank via Venturi cleans the inside of the nozzle body and back pressure on nozzle used to clear partial blockages Jet then starts no modulation the return valve pulsed to remove air may also help restore a sticking valve repeated until aborted

Press F1 to Abort Nozzle Maintenance functions



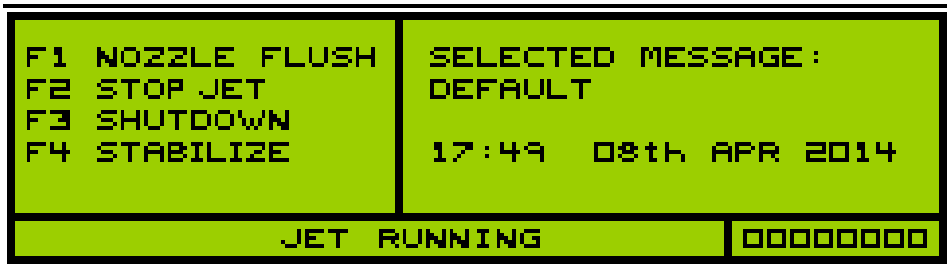


Remove Print Head Cover

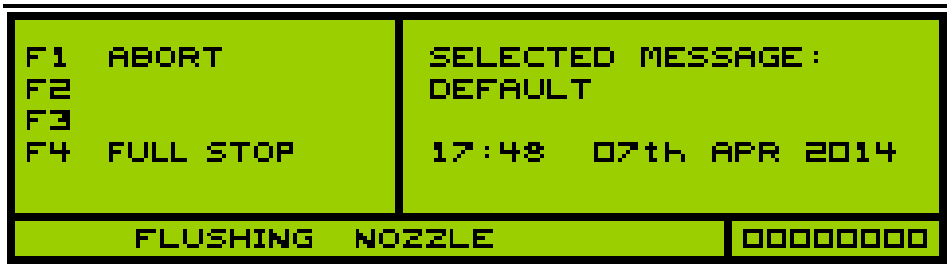


Press **F2** Jet Running **Nozzle Maintenance and Print Head Cover Removed** 

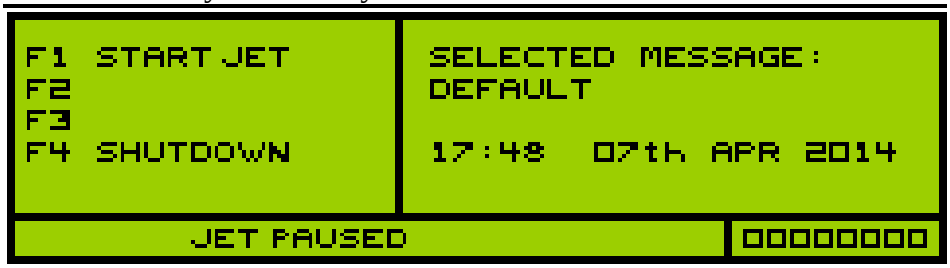
Jet Running Nozzle Maintenance gives four options for cleaning the nozzle with jet in run mode



Press **F1 Nozzle Flush** Pump is at 3.1 Bar return valve opened and back pressure on nozzle jewel plate used to clear partial blockages on the nozzle jewel plate solvent is applied to front of nozzle whilst in flushing mode. Press F1 to abort and to re-start the Jet

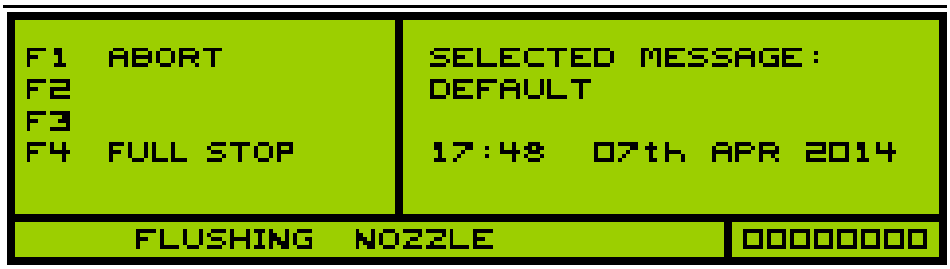


Press **F2 Stop Jet** Pump runs 3.1 Feed valves close allowing print head to be cleaned and dried if dirty when ready Press **F1 to Re-Start Jet**



Press **F3 Shutdown** will quickly stop the printer without flushing nozzle not recommended for any shutdown of more than an hour

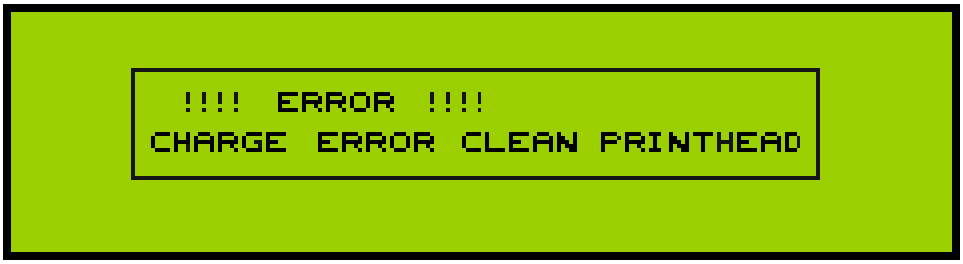
Press **F4 Stabilize** Pump runs 3.1 Bar return & feed valve opened ink pulled from mixer tank via Venturi cleans the inside of the nozzle body and back pressure on nozzle used to clear partial blockages Jet then starts no modulation the return valve pulsed to remove air may also help restore a sticking valve repeated until aborted Press F1 to abort and to re-start the Jet



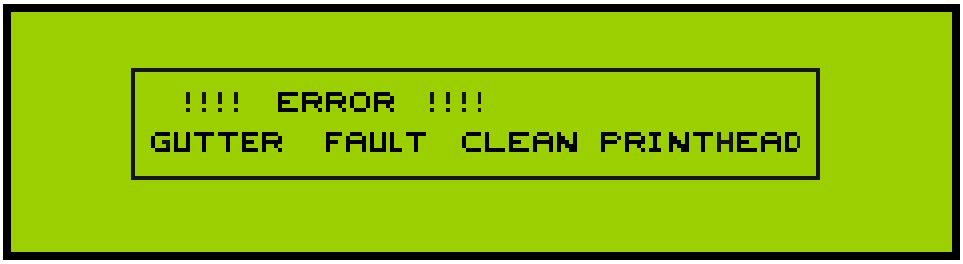
Press Escape Abort Nozzle Maintenance functions and put the printer back into run mode allow approx. 15 seconds to stabilize before replacing print head cover

The Charge error and Gutter fault will bring up the running nozzle maint screen if a key is pressed within 5 minutes of the error after that the printer will shut down to a full stop

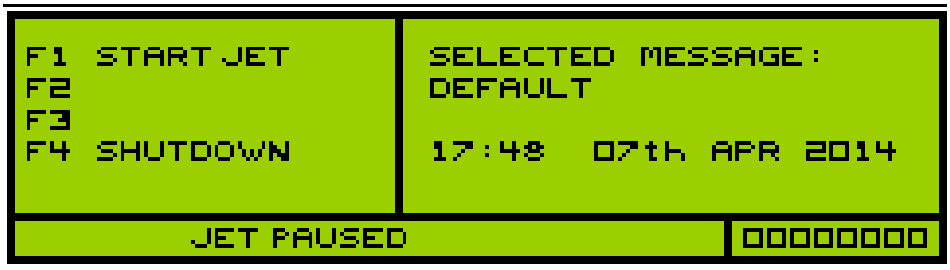
Charge Error



Gutter Fault



Ensure print head cover is off & Press any key to bring up running nozzle maintenance Menu Clean and dry the nozzle then start the jet



EXTENDED FONTS IN CHARACTER GENERATORS

ALT + 3 DIGIT	CHARACTER	NAMED
128	¡	Inverted !
129	¿	Inverted ?
130	«	Spanish Left Quote mark
131	»	Spanish Right Quote mark
132	¶	Pilcrow
133	¢	Cent
134	£	Pound
135	¤	Currency
136	¥	Yen
137	₠	Euro-Currency
138	₡	COLON
139	₢	CRUZEIRO
140	₣	FRENCH FRANC
141	₤	Lira
142	₦	NAIRA
143	₱	Philippine PESO
144	₹	India RUPEE
145	₩	Korea WON
146	₪	Isreal SHEQEL
147	₫	Vietnam DONG
148	€	EURO
149	₧	Spain PESETA
150	₽	Russian RUBEL
151	À	A with Grave
152	Á	A with Acute
153	Â	A with Circumflex
154	Ã	A with Tilde

ALT + 3 DIGIT	CHARACTER	NAMED
155	Ä	A with Diaeresis
156	Å	A with Ring
157	Æ	Latin AE
158	Ç	C with Cedilla
159	È	E with Grave
160	É	E with Acute
161	Ê	E with Circumflex
162	Ë	E with Diaeresis
163	Ì	I with Grave
164	Í	I with Acute
165	Î	I with Circumflex
166	Ï	I with Diaeresis
167	Ð	Capital Eth, D with Stroke
168	Ñ	N with Tilde
169	Ò	O with Grave
170	Ó	O with Acute
171	Ô	O with Circumflex
172	Õ	O with Tilde
173	Ö	O with Diaeresis
174	Ø	O with Stroke
175	Œ	Latin OE
176	Ù	U with Grave
177	Ú	U with ACUTE
178	Û	U with Circumflex
179	Ü	U with Diaeresis
180	Ý	Y with Acute
181	Þ	Captial Thorn
182	ß	Sharp S (B)
183	à	a with Grave

ALT + 3 DIGIT	CHARACTER	NAMED
184	á	a with Acute
185	â	a with Circumflex
186	ã	a with Tilde
187	ä	a with Diaeresis
188	å	a with Ring
189	æ	Latin ae
190	ç	c with Cedilla
191	è	e with Grave
192	é	e with Acute
193	ê	e with Circumflex
194	ë	e with Diaeresis
195	ì	i with Grave
196	í	i with Acute
197	î	i with Circumflex
198	ï	i with Diaeresis
199	ð	Small Eth
200	ñ	n with Tilde
201	ò	o with Grave
202	ó	o with Acute
203	ô	o with Circumflex
204	õ	o with Tilde
205	ö	o with Diaeresis
206	ø	o with Stroke
207	œ	Latin oe
208	ù	u with Grave
209	ú	u with Acute
210	û	u with Circumflex
211	ü	u with Diaeresis
212	ý	y with Acute

ALT + 3 DIGIT	CHARACTER	NAMED
213	þ	Small Thorn
214	ÿ	y with Diaeresis
215	Č	C with Caron
216	Ć	C with Acute
217	Š	S with Caron
218	Ž	Z with Caron
219	Ő	O with Double Acute
220	Ű	U with Double Acute
221	č	c with Caron
222	ć	c with Acute
223	đ	d with Stroke
224	š	s with Caron
225	ž	z with Caron
226	ő	o with Double Acute
227	ű	u with Double Acute
228	Ą	A with Ogonek
229	Ę	E with Ogonek
230	Ł	L with Stroke
231	Ż	Z with Dot
232	Ğ	G with Caron
233	Ş	S with Cedilla
234	ą	a with Ogolek
235	ę	e with Ogolek
236	ł	l with Stroke
237	ż	z with Dot
238	ğ	g with Caron
239	ş	s with Cedilla
240	Ẁ	W with Grave
241	Ŵ	W with Circumflex

ALT + 3 DIGIT	CHARACTER	NAMED
242	Ẅ	W with Diaeresis
243	Ỳ	Y with Grave
244	Ŷ	Y with Circumflex
245	Ÿ	Y with Diaeresis
246	ẁ	w with Grave
247	ŵ	w with Circumflex
248	ẅ	w with Diaeresis
249	ỳ	y with Grave
250	ŷ	y with Circumflex

EDIT MODE FUNCTIONS

KEY	FUNCTION	CATEGORY
ESC	Abandon, Do not Save	User
SAVE	Save & Exit	User
DEL	Delete Character under Cursor	User
ALT DEL	Delete to text to end of field	User
CTRL DEL	Delete Field	User
BOLD	Make Text Bolder	User
INVERT	Invert Field(s)	User
REVERSE	Reverse Field(s)	User
FONTS	Select Font	User
ALT FONTS	Select Barcode	User
CLOCK	Time Field	User
ALT CLOCK	Date Field	User
CTRL CLOCK	Expiration or Julian Field	User
ALT L (+)	Incrementing Field	User
ALT M (-)	Decrementing Field	User
ALT P	Logo or Picture Field	User
ALT S	Serial Buffer Field	User
ALT V	Refresh WYSIWYG User	User

KEY	FUNCTION		CATEGORY
	Left Arrow	Move Cursor left one dot	User
	Right Arrow	Move Cursor right one dot	User
	Up Arrow	Move Cursor up one dot	User
	Down Arrow	Move Cursor down one dot	User
	CTRL Right Arrow	Move Cursor left eight dots	User
	CTRL Left Arrow	Move Cursor right eight dots	User
	CTRL Up Arrow	Move Cursor up eight dots	User
	CTRL Down Arrow	Move Cursor down eight dots	User
	ALT Right Arrow	Move Cursor to home	User
	ALT Left Arrow	Move Cursor to the end of Message	User
	ENTER	Move Cursor to next Line	User

MAIN SCREEN FUNCTIONS

KEY	FUNCTION	CATEGORY	
PRINT	PRINT	Start Jet	User
PAUSE	PAUSE	Quickly Stop Jet	User
ALT + PAUSE	ALT STOP	Cleanly Stop Jet	User
MSG	MSG	Select message to Print	User
←	LEFT Arrow	Contrast Adjustment	User
→	RIGHT Arrow	Contrast Adjustment	User
EDIT	EDIT	Message Editor	User
ALT + MSG	ALT MSG	Copy Message	User
ALT + DEL	ALT DEL	Delete Message	User
CTRL + D [	CTRL D	Disable Printing	User
CTRL + P =	CTRL P	Induce a manual print trigger	User
CTRL + S :	CTRL S	Set Shift periods and Codes	User
CTRL + WIDTH	CTRL WIDTH	Shaft Encoder Source	User
ALT + WIDTH	ALT WIDTH	Repeat Print Mode	User
ALT + DELAY	ALT DELAY	Repeat Print Delay	User
🕒	CLOCK	Set the current Date and Time	User
HEIGHT	HEIGHT	Temporary EHT Level	User
INVERT	INVERT	Temporary Message Inversion	User

KEY	FUNCTION	CATEGORY	
	REVERSE	Temporary Message Reversal	User
	CTRL E	Temporary Expiration in Days	User
	WIDTH	Temporary Shaft Encoder Divisor	User
	BOLD	Temporary Raster Repeat Count	User
	DELAY	Temporary Print Delay	User
	ALT G	Temporary Inter Character Gap	User
	CTRL Z	Zero Product Counter	User
	ALT L	Select Language	User

KEY	FUNCTION	CATEGORY
	ALT D	Diagnostic Mode	Service/User
	ALT PRINT	System-Warm Up Mode	Service/User
	CTRL START	Nozzle Flush	Service/User
	CTRL PAUSE	Umbilical Purge	Service/User
	ALT HEIGHT	EHT Trip Level Set	Service
	ALT P	Default Pump Pressure	Service
	CTRL M	Modulation Level	Service
	ALT Q	Phase Voltage Level	Service
	ALT C	Phase Control Disable/Enable	Service
	CTRL C	Charge Error Shutdown Disable/Enable	Service/User
	ALT E	Photocell Edge Select	Service
	CTRL V	Viscosity Set point	Service
	ALT V	Viscosity Warm Up Time	Service
	CTRL DEL	Delete All Messages	Service
	Alt D Alt F1	Calibration Menu	Service