



A-Series **GP** User Guide



CONTENTS

INKS AND FLUIDS INFORMATION	4
Storage	5
Fire Risk	5
Spillages and Disposal	6
GENERAL	7
START-UP	8
MACHINE SHUT DOWN	9
EMERGENCY SHUT DOWN	9
INK AND MAKE-UP CARTRIDGE REPLACEMENT	10
INK RESERVOIR REPLACEMENT	11
FRONT PANEL OPERATION	14
KEYBOARD, OPTION AND FUNCTION BUTTONS	15
Display	17
Function Buttons	18
MESSAGE ENTRY	19
Introduction	19
Message Functions	19
Message Defaults	21
Create New Message	22
Alternate Keyboard	25
Edit Message Settings and Field Settings	26
Message Store	28
Edit Message	28
Delete a Message	28
Print Message	30
CLOCK FUNCTIONS	31
Inserting a Clock	32
Offset Clock Settings Defaults	34
Inserting an Offset Clock	35
Inserting a Counter	37
Counter Reset	39
Barcode Message Entry (Model Dependent)	41
Inserting a Logo	44
PRINTER STATES	47
Standby	47

Getting ready to print	47
Ready to Print	47
Not Ready to Print	47
Heating	48
FAULT FINDING	49
No Indicators Showing	49
Machine Does Not Print	49
Print Position Incorrect	50
Print Size Too Small	50
Gutter Over-flowing Ink	50
CLEANING THE PRINT HEAD	52

A-SERIES GP SYMBOLS

The following symbols are used in this manual. Where they appear next to a procedure or instruction, they have the significance and importance of written warnings and cautions.



Eye protection must be worn.



Protective clothing must be worn. Use adequate protective gloves. Consult the relevant Safety Data Sheet (SDS)



The equipment must be switched off and power removed.



Only trained personnel should carry out this procedure.



Beware of Electrostatic Discharge (ESD). Electrostatic precautions must be used.

- Switch off machine first
- Wear a wristband connected to the ESD connector provided
- Avoid wearing clothing which can build up electrostatic voltages
- Use ESD protective bags to transport PCBs
- Only place PCBs on a mat made from a material which will dissipate electrostatic voltages and which is connected to ground.

HEALTH AND SAFETY

Inks and Fluids Information

Domino supplies Safety Data Sheets (SDS) giving specific safety information with each of its ink, make-up and wash fluids. There are also warnings on each container. The following are general basic requirements:

- Proper standards of industrial practice relating to cleanliness and tidiness must be maintained.
- Inks and their containers must be stored and handled with care.
- Do not smoke or allow naked flames (or other sources of ignition) in the vicinity of any inks or solvents as this is highly dangerous.
- All who come into contact with inks must be properly instructed in their use.

Directions for safe working practices vary according to the environment. The following are broad principles so that necessary precautions may be taken:

- Contact with the mouth must be avoided. Therefore eating, drinking or smoking, or any personal habits or actions which may transfer ink to the mouth, must be avoided.
- Contact with the eyes must be avoided. Suitable eye protection must always be worn whenever there is any risk of splashing or misting. If ink does get into the eyes, first aid treatment is to flood the affected eye for 15 minutes with saline solution, (or clean water if saline solution is not available), taking care not to allow the water to run into an unaffected eye. Medical aid must be obtained immediately. Eyewash is available from Domino (Pt.No. 99200).
- Most inks contain solvents which may injure the skin. Good working practice must always be employed and risk assessments carried out. Safety Data Sheets are available that give advice on personal protective equipment. Most gloves only offer limited and short term exposure protection and must be changed after any splashing and on a frequent basis.

- Many inks contain materials which vaporise easily and can be inhaled. Good ventilation is necessary.
- Any used cleaning materials, e.g. rags, paper wipes, are a potential fire hazard. They must be collected for safe disposal after use.

Storage

Printing inks must be stored in well ventilated buildings, in areas set aside for the purpose and chosen for safety in case of fire. All fluids must be stored in accordance with local regulations.

Fire Risk

For an electrical fire, do not use water. If water must be used, such as in the case of a Nitro-cellulose ink fire (see below) the power **MUST BE REMOVED** first.

Many inks contain Nitro-cellulose as the binder and remain highly flammable when dry. Observe all warnings given on the machine and the following safety instructions:

- If there has been an accumulation of dried ink, do not use metal scrapers to remove it, as they can produce sparks.
- If dry Nitro-cellulose based ink ignites, it will generate its own oxygen and can only be extinguished by lowering the temperature with water.
- If a Nitro-cellulose fire occurs, **ENSURE THAT THE ELECTRICAL POWER IS IMMEDIATELY REMOVED FROM THE PRINTER BEFORE** water is used to extinguish the fire.

Fire risk is a most important consideration where printing inks are stored and used. The degree of fire hazard will vary considerably from one type of ink or wash to another.

Water-based inks will not burn, although inks based on water-alcohol mixtures may burn if there is sufficient alcohol present. Prolonged exposure of water-based systems to high temperatures may evaporate the water to give a flammable residue.

Solvent-based inks offer a greater degree of hazard depending on the particular solvent or solvent combination. When there is a particular hazard the appropriate information is given on the SDS.

The printers place small electrostatic charges on the ink drops used for printing. In most circumstances, such as when they arrive at the print surface, these electrostatic charges are either conducted away or cannot accumulate. However, during maintenance, print drops may be collected in a container, such as a beaker. It is essential that this container is made of conducting material and is securely connected to ground/earth. The electrostatic charges will then be safely conducted to ground/earth.

If there is a fire, there is a likelihood that dangerous fumes will arise from printing inks. For this reason ink must be stored where it can be reached quickly by the fire fighting service, and where it will not spread beyond the store.

Spillages and Disposal

**WARNING: Some dried inks are highly flammable.
Clean up all ink spillages immediately. Do
not allow the ink to dry or allow any build-
up of dried ink spills.**

Spillages must be cleaned up as soon as possible with the appropriate solvent materials and with regard to the safety of personnel. Care must be taken to prevent spillages or residue from cleaning up entering drains or sewage systems.

Inks and associated fluids are materials which conduct electricity. Therefore, power to the printer must be switched off while spillages inside the printer cabinet are being cleaned up.

Printing inks and associated fluids must not be treated as ordinary waste. They must be disposed of using approved methods according to local regulations.

INTRODUCTION

General

This document contains basic operation instructions for Domino A-Series GP printers.


For detailed operation and maintenance information, refer to the A-Series GP Printer Operations and Maintenance Manual.

OPERATION


Start-Up

Note: From Power Off.

Press and hold the *Power On/Off*  button for 2 seconds.



- The green indicator on the power button is lit and strobe LED begins to flash.
- The status bar at the top will display any faults (time to standby, screen active, pumps off takes approximately 20 seconds).
- The Home screen is displayed with the  icon in the top right of the screen.

Press and hold the *Start/Stop*  button for 2-3 seconds.

- The green indicators on the start/stop buttons begin to flash
- The status bar displays faults and "Jet Starting"
(The Start-Up takes approximately 70 seconds)
- The status indication (bottom right of screen) shows "Start" with countdown time shown in seconds
- The printer is now ready to print messages and the  icon is displayed in the top right of the screen.


Machine Shut Down

Note: From Ready to Print or Standby.

- Press the *Power On/Off*  button for 2 seconds.
- The green indicators on the start/stop button begin to flash.
- Printer is shutting down.
- A timer is shown on the bottom right of screen and displays "Stop" with countdown time.
- The  icon is displayed in the top right of the screen.
- Shut down sequence takes approximately 3 minutes from printing or 12 seconds from standby.
- The display and pumps will be off after the printer has powered off.

Emergency Shut Down

Note: At anytime.

- Press and hold the *Power On/Off*  button for 10 seconds.

CAUTION: *After an emergency shut down, do not attempt to remove the nozzle plate, as residual pressure may be present in the feed line to the print head.*

Ink and Make-up Cartridge Replacement

WARNING:



Do not smoke or allow naked flames (or other sources of ignition) in the vicinity of any inks or solvents as this is highly dangerous.

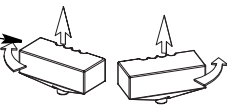
Note: If only small amounts of ink are being used by the printer, it may not be necessary to fit an ink cartridge. Leave the ink manifold seal in place and only fit an ink cartridge when a request appears on the display.

Messages 'Add Ink Cartridge' or 'Add Make-up Cartridge' will appear on the screen when the ink or make-up cartridges need replacing, and the amber alert will illuminate.

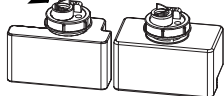
The ink cartridge is rotated anti-clockwise and the make-up is rotated clockwise to free them before being lifted away. This mechanism ensures that the cartridges cannot be fitted onto the wrong manifold.

To fit a cartridge, cut off the sealing tab using a cartridge opening tool (Domino part number 67378).

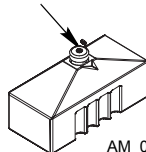
Rotate and lift cartridges to remove.



When refitting, press cartridge firmly down to fit.



Remove the lid using the cartridge opening tool - 67378



AM_0029.eps

AM_0033a.eps

Cartridge Replacement

If the make-up cartridge is not replaced, the make-up reservoir will empty and the ink viscosity will eventually go outside its operating limits. Also, head flushing will not be carried out when the printer is shut down and ink may be deposited on the print head components. Thus, although the printer can still be used, head faults may occur.

Ink Reservoir Replacement

WARNING: Do not smoke or allow naked flames (or other sources of ignition) in the vicinity of any inks or solvents as this is highly dangerous.

The time remaining on the ink reservoir can be viewed on the Home screen via the



icon.

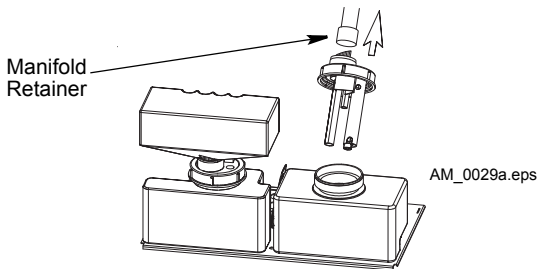
Replace the reservoir as follows.

- Notes:
- (1) Tissue will be required for this procedure.
 - (2) The make-up reservoir is non-replaceable.

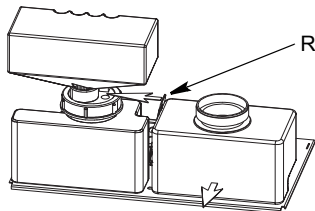
Switch off the printer. Remove the ink cartridge (see following diagram). Unscrew the manifold locking ring, lift the manifold out of the reservoir and secure the manifold into the manifold retainer inside the top of the ink cabinet.

Fit a cap to the reservoir. Push the metal reservoir retaining bar and pull the reservoir forward to remove.

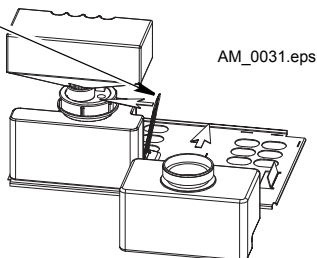
To fit a new reservoir, reverse the above procedure.



AM_0030.eps



Removing the Ink Reservoir





Refitting the Ink Reservoir

Ink Reservoir Replacement

When a new ink reservoir is fitted it is necessary to enter the reservoir quality code to reset the reservoir replacement alarms using the following procedure:

- (1) Switch the printer to a standby state.

Note: Ensure the jet is OFF

- (2) Press the "Service Key"  button.
- (3) Press the "Quality Code"  button.
- (4) Press the right cursor button to highlight the input window and enter the new quality code printed on the front of the new reservoir.
- (5) Press the "Enter" button once.
- (6) If the quality code is accepted, fit the reservoir.

(7) Restart the printer.

(8) The printer will commence a low pressure bleed of the ink system for 3 minutes.

Note: This procedure must be allowed to complete before any operations can commence.

Front Panel Operation

All operations for the printer are controlled through the user interface.

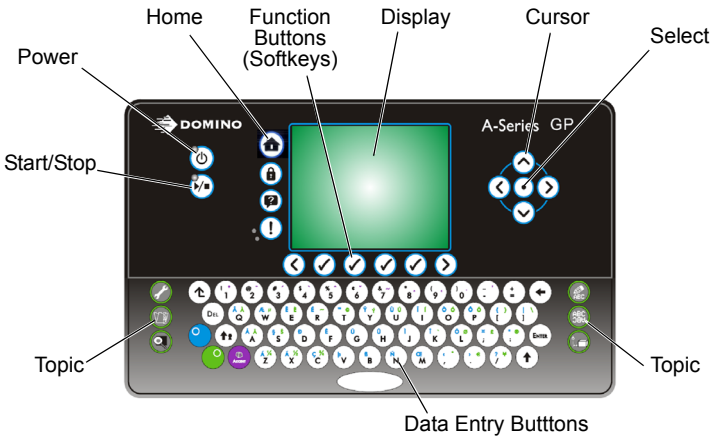
There are two types of buttons:

- Permanent buttons with fixed functions
- Function buttons (softkeys) with functions that change.

Note: Up to four softkey options display in the window, these correspond to the four functions immediately above the function keys. They can be scrolled left or right to display the other functions.

Alternative characters are available when used in conjunction with either the "Alt 1" or "Alt 2" Function buttons.

The main areas of the interface are identified below:



Front Panel Keyboard Layout

Keyboard, Option and Function Buttons



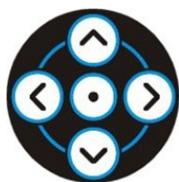
Power On
key

To sequence the machine on to standby, depress the start button for 2 seconds.



Start/Stop
Key

To sequence the machine On to print, depress the Start/Stop button for 2 seconds. The machine will then go through a sequenced ready to print. If pressed whilst ready to print machine will sequence to standby.



Cursor and
Select
Buttons

Four outer buttons are used to move the cursor around the screen. The Select button in the centre is used to select an action and save changes.



Home

Takes user back to home screen.



Security

Allows the user to login/logout (when activated).



Help

Displays Help functions.



Active Alerts

View the system alerts.



Service

Allows the user to enter the service function.



System
Properties

Lists command functions.



Status

View the status of the printer.



Alt 1

Selects the "Blue" character set on the keyboard.



Alt 2

Selects the "Green" character set on the keyboard.



Accent

Selects the language accents on the keyboard.



Message
Editor

Takes the user to the current message being printed and allows message to be edited. The message store will also be displayed, allowing selection/editing of messages.



Print
Parameters

Allows access to the print parameters, delay, width etc.



Delay

Allows the user to adjust the print Delay.



Backspace

Deletes entries to left of the cursor.



Delete Deletes entries to the right of the cursor.



Caps Lock Alternates the typed character from lower to upper case.



Shift Press and hold to allow upper/lower case.

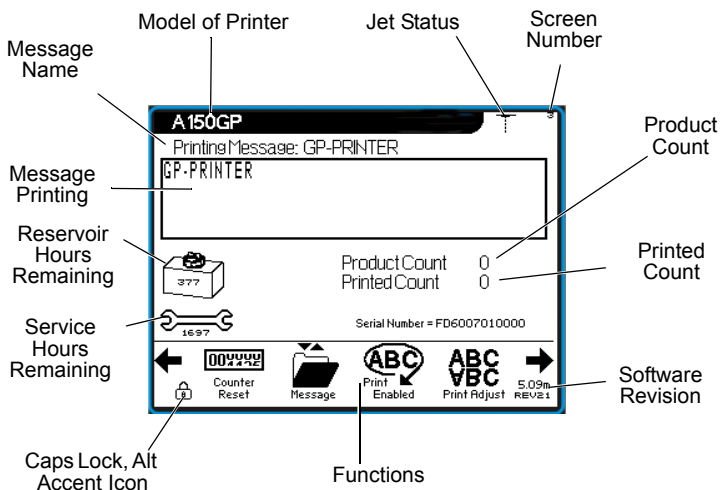


Back Aborts any changes, returns to previous menu



Function Select softkey option on the screen. Use the cursor either side to scroll through the soft options.









Display



Function Buttons (Softkeys)

The function buttons (softkeys) allow the user to enter into various topics and have access to all functions of the printer from creating a message, message store, system properties etc.

The listing below is a description of the Main page icons.

	Counter Reset	Allows the counters to be reset.
	Messages	Message store and editing.
	Print Enabled/Disabled	Enables or disables printing.
	Print Adjust	Allows print adjustments and setup.
	Logo Utility	Creation and editing of logos.
	Back Flush Enabled/Disabled	This function is used to clear a nozzle blockage. Ensuring adequate Personal Protective Equipment is worn (see Health and Safety section), with the jet switched OFF enable the Back Flush and apply solvent to the nozzle face. Icon changes depending whether the flush is enabled or disabled.
	Print Trigger	Software Print-go.
	Active Alarms	Displays any current alarm conditions.



Message Sequence Allows messages to be printed in a defined order.

Message Entry

Introduction

The GP Printer allows you to create messages by entering data into the following fields:

- Text
- AutoCode (Date, Time etc.)
- Barcode
- Logo (created or imported)
- User Defined (Text or Barcode)

Before creating a message, each of these fields must be defined so that subsequent messages will automatically have the field defaults (such as font size, bold, and orientation) automatically applied. This is explained in “Message Defaults” on page 21. Once set, all new messages will use these defaults. However these values can be changed at any time within the message.

Note: If the required message defaults have been set, go to “Create New Message” on page 22.

Message Functions

The following buttons are used to select the various options and settings as listed below.



Add Field Used to add extra fields within a message.



Edit Text Used to edit the text of a highlighted field.



Next
Field

Selects the next available field for editing.



Delete
Field

Deletes a highlighted field.



Shift

Enables the user to configure the message shift settings.



Counters
1-5

Counter set-up menu (dependent upon number of counters that are set up).



Settings

Allows the user to set-up repeat printing, pitch etc. Access to shift codes, Counter functions and offset clocks.



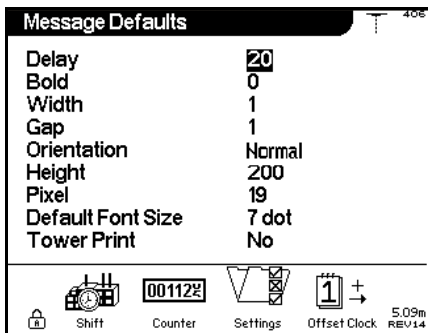
Offset
Clock

Allows the user to set the parameters of the Offset Clocks.

Message Defaults

To set the message defaults

- (1) Press the “Properties”  button.
- (2) Press the “Message”  button.



- Delay:** Sets the delay from the print go to message printing. (Value 0 to 999999).
- Bold:** Adds extra strokes to the character increasing width. (Value 0 to 9).
- Width:** Sets the print resolution by dividing the encoder input pulses, or by the internal width control setting. (Value 0 to 255).
- Gap:** Sets the inter-character spacing between the characters. (Value 0 to 9).
- Orientation:** Sets the direction and orientation of print settings: Normal, Reverse, Inverse and Inverse Reverse.
- Height:** Sets the voltage on the deflection plates to increase or decrease print height. (Value 0 to 255).

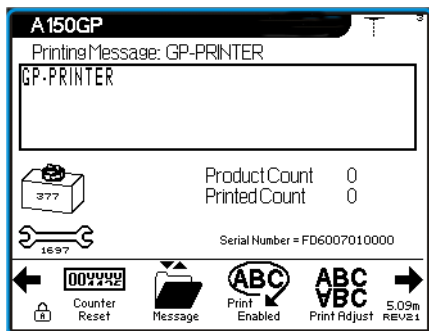
- Pixel:** Raster selection: Sets the number of printed vertical pixels. Values available (dependent upon model) 5,7,9,12,2L7,16,19,3L7,25, 4L7,31.
- Default Font Size:** Sets the default font size to all message fields. Values available (dependent upon model) 5,7,9,12,16,19,25 and 31.
- Tower Print:** Orientates the text in a vertical plane. Rotates the text either Clockwise (CW) or counter-clockwise. Tower Print can only be selected in Field Settings. Select if you wish this feature to be available.



Use the cursor buttons to select the parameter and change the values. Select "Enter" when done.

Note: If the caps lock is enabled entered message setting values increment. If caps lock is disabled, message setting values decrement.

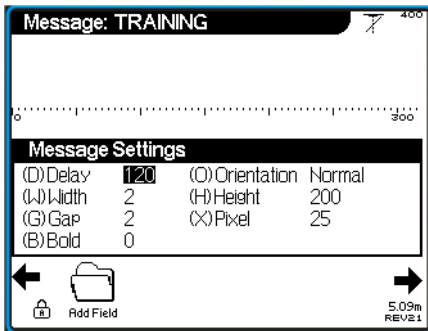
Create New Message

From the Home screen:

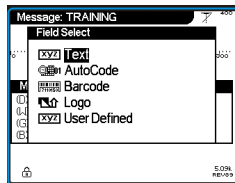


- (1) Press the "Message"  button to access the message creation screen.
- (2) Press the "New"  button.
- (3) Enter a "Name" for the message in the open window then press "Enter". The new message is automatically saved in the Message Store.
- (4) From the next window, check the "Message Settings" to ensure they are correct for the application.

Note: These will be as the Defaults set in "Message Defaults" on page 21. To change these values refer to "Edit Message Settings and Field Settings" on page 26.



- (5) Once the Message Settings are confirmed, press the "Add Field" button.
- (6) From the next window, select the field type required. In this example select "Text" using the cursor buttons and press "Enter".

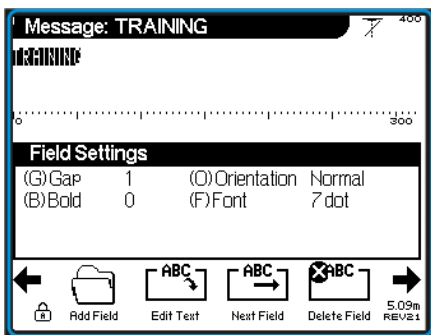



Options that are available from this window are:

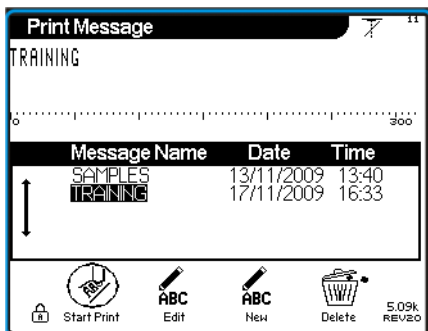
- (a) **Text**- Standard text field. Text can be input using an alternative keyboard (for languages such as Arabic, Chinese etc.) Refer to the Operation and Maintenance Manual.
 - (b) **AutoCode** - Allows user to input clocks, counters, shift codes or user defined codes
 - (c) **Barcode** - Allows the selection of various barcodes (dependent upon model)
 - (d) **Logo** - Allows the input of pre-designed saved logos
 - (e) **User Defined** - Special character input. This can be used for text and bar codes. A prompt will appear on screen to change field information.
- (7) Enter the required text in the field that needs to be printed and then press "Enter". Use the cursor buttons to position the new field in the Message window.

Field Text: TRAINING

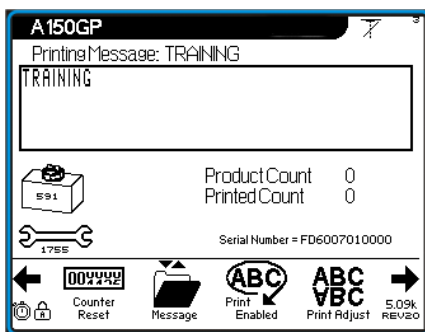
- (8) At the main message screen, change various settings, enter a new field, edit text in a field, and delete a field. By using the "Field Settings" screen, change the characteristics of the printed field by selecting the appropriate character before the option, i.e. Bold = B.



- (9) To add another field press the "Add Field"  button then repeat from step 6.
- (10) Use the cursor buttons to position the new field.
- (11) Once the message is complete, press "Enter". At the prompt, save this message and press "Enter" again to return to the main screen.



- (12) To print the message press the "Start Print" button.
- (13) The screen then changes back to the Home screen and displays the current message that is about to be printed.



Alternate Keyboard



The Alternate Keyboard allows text to be added using a keyboard from another languages (Arabic and Chinese for example). This text can be in a text field or a file name. Each text field can be configured independently with any of the supported languages. Refer to the "Alternate Keyboard" section in the Operation and Maintenance Manual for more information.

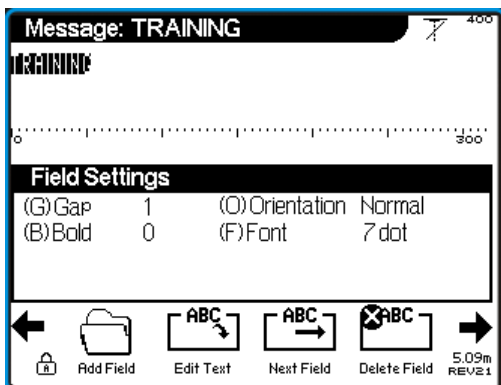
Edit Message Settings and Field Settings

Edits can be applied to both Message Settings (set at the default stage) and Field settings.

To edit a message saved in the message store:

Use the cursor buttons to highlight the message name.

- (1) Press the "Edit"  button. The editable Message Settings are highlighted.
- (2) Use the keyboard to select the parameter you wish to change (W) for width for example. Refer to "Message Defaults" on page 21 for details of the displayed parameters.
- (3) Press the "Next Field"  button. One of the message fields will be highlighted as shown below.

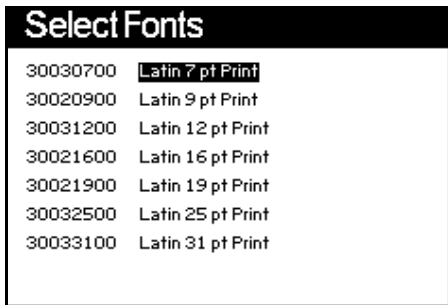


- (4) If required, press "Next Field" again until the required field is highlighted.
- (5) Change the Field settings.


The definitions for each of the Field Settings follow:

- (G) Gap Inter-character gap; the spacing between characters, Value from 0 to 9. (Also available for overall Message Settings).

- (B) Bold (Value from 0 to 9.
(Also available for overall Message Settings).
- (O) Orientation Orientation of the field. Select Normal/
Reverse/Inverse/Inverse Reverse/Tower
CW/Tower CCW (if activated when the
defaults were set).
- (F) Font This can be set for numerous font sizes and is
dependant on the Pixel size that is set. (Field
only adjustment) as shown below.

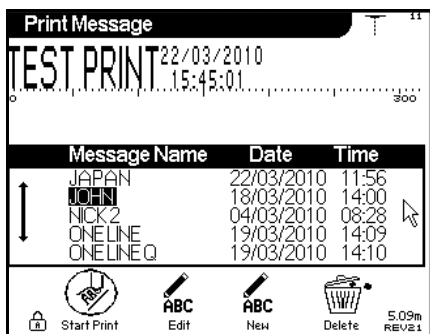


Note: Do not exceed the maximum pixel size.

- (6) Press the "Edit Text"  button. The message text can then be edited.
- (7) Press the "Enter" button to "Save As". It is then possible to overwrite the existing message (a further prompt will display) or enter a new message name. This will then save back to the message store.


Message Store

All messages are saved to the Message Store. These can then be selected for print, edit or delete.




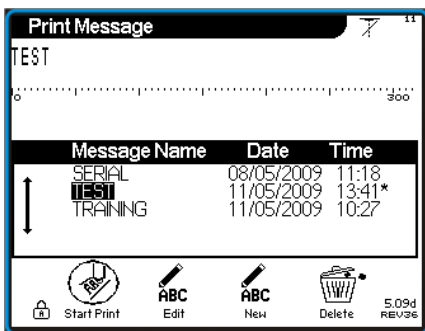
Note: Pressing the first character of the message displays the stored messages that start with that character.


Edit Message

To edit a message saved in the Message Store, select the required message and press the "Edit"  button. The message can then be edited as required. When completed, press the "Enter" button. A prompt will appear giving the options to overwrite the existing message (a further prompt will display) or entering a new message name.

Delete a Message

- (1) From the Home screen press the "Message"  button.



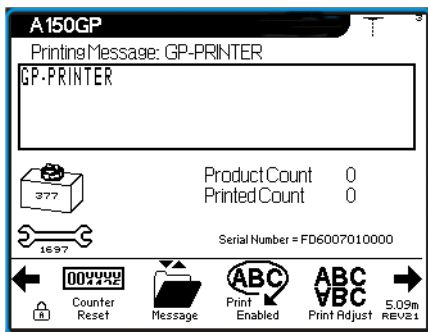
- (2) Use the cursor buttons to move up and down to highlight the message to be deleted.
- (3) Press the "Delete"  button.



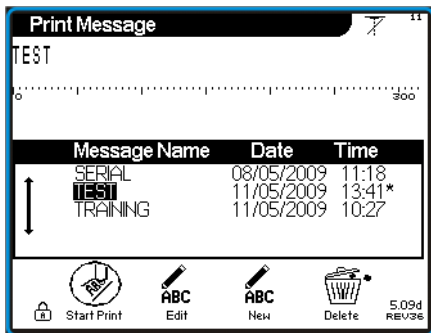
- (4) Press the "OK" button to delete the message and return to the Message Store screen.

Print Message

From the Home screen:




- (1) Press the "Message"  button.



- (2) Use the cursor buttons to move up and down to highlight the message to be printed.

Note: Pressing the first character of the message displays the stored messages that start with that character.

- (3) Press the "Start Print"  button.
- (4) The message will now print and the Home screen is displayed again.

Clock Functions

The following functions are available: Times, Dates, Rollover and Clock offsets.

There are two clock offsets that can be set and used in messages.

The following screens provide an overview of the available clock functions and settings.

Time Formats:

Time Format	
HH:MM:SS	
HH:MM	
Hours	
Minutes	
Seconds	
15 Minute	

Date Format:

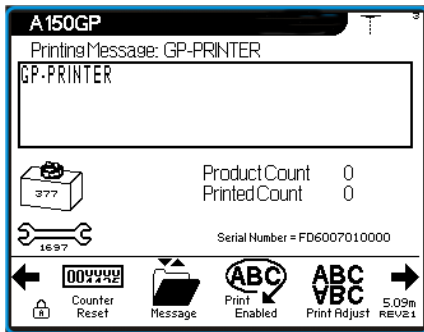
Date Format	
DDMMYY	Month Number
DDMMYYYY	Week
Day of Year	Year 1 Digit
Day of Month	Year 2 Digit
Day of Week	Year 4 Digit
Alpha Year	Hijri Date
Alpha Month	Hijri Day
Alpha Day Of Week	Hijri Month
Alpha Day Of Month	Hijri Year




RIGHT/LEFT -> change DDMMYY

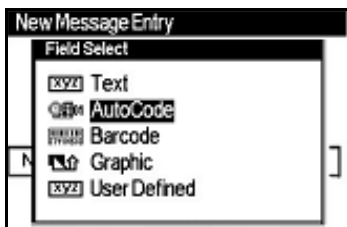
- Time:** Based on the real time setup in System Properties.
- Date:** Based on real date and offset date setup.
- Offset Date:** Based on real date and offset date setup.
- Rollover Date:** Based on real date and offset date setup.
- Shift:** Based on real time and shift time setup.

Inserting a Clock

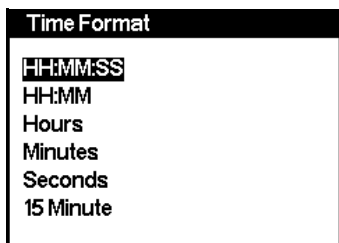
From the Home screen:



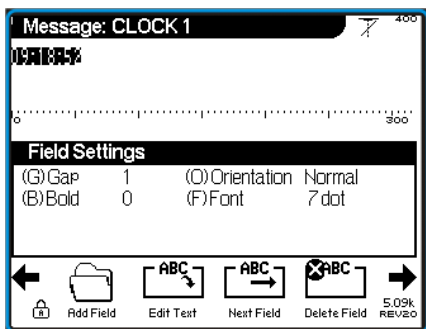
- (1) Press the "Message"  button
- (2) Press the "New"  button.
- (3) Enter a name for the message then press "Enter". The new message is automatically saved in the Message Store once the procedure has been completed.
- (4) Message settings can be changed at this stage before the field is added.
- (5) Press the "Add Field"  button.
- (6) From the next window, select the type of message required. In this example, "AutoCode" was selected by using the cursor buttons and press the "Enter" button.



- (7) Select the required AutoCode type ("Time" in this example) from the menu using the cursor buttons and press "Enter".
- (8) Select the required time format ("HH:MM:SS" in this example) from the menu and press "Enter".







- (9) Select "Time Delimiters" if required from the next window and press "Enter".
- (10) The time is displayed in the Message window, where options are to "Add Field", "Edit Text", etc., or change the "Field Settings". Use the cursor buttons to position the field.

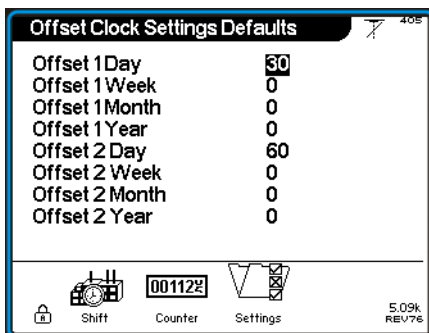


- (1) Press the "Enter" button to save the settings, then "Enter" again to save the message in the Message Store.
- (2) Press the "Start Print" button to print the message and return to the Home screen.

Offset Clock Settings Defaults

To set offset times for the two clocks available:

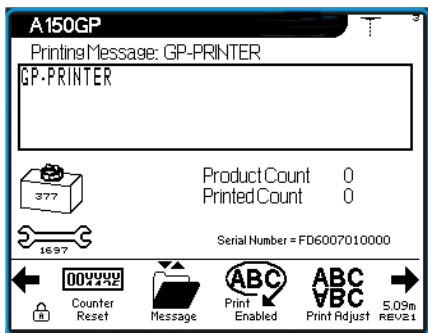
- (1) Press the "System Properties"  button.
- (2) Press the "Message"  button.
- (3) Press the "Settings"  button.
- (4) Press the "Offset Clock"  button.






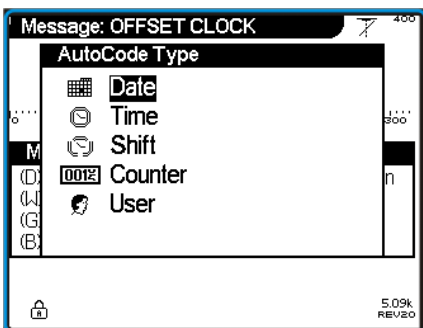
Once the offset times have been configured as shown, the clock inserts can be used within a message.

Inserting an Offset Clock

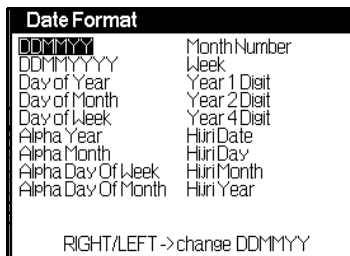
From the Home screen:



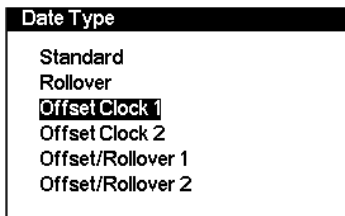
- (1) Press the "Message"  button.
- (2) Press the "New"  button.
- (3) Enter a name for the message then press the "Enter" button. The new message is automatically saved in the Message Store once the message has been completed.
- (4) From the next window change any Message Settings required before selecting "Add Field".
- (5) Press the "Add Field"  button.
- (6) From the next window select the type of message required. In this example select "AutoCode" using the cursor buttons and press "Enter".
- (7) Select "Date" from the "AutoCode Type" menu.



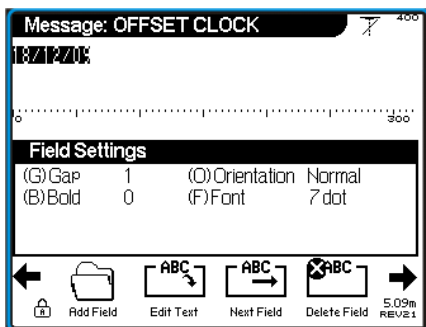
- (8) Select DDMMYY as the format and press "Enter".



- (9) On the next window select "Offset Clock 1" using the cursor to scroll down and press "Enter"



- (10) Select "Date Delimiters" if required and press "Enter".
- (11) The Date will now appear in the Message window with the offset entered.

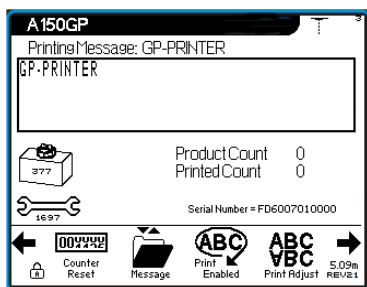


- Press "Enter", then "Enter" again to save the message, then the "Start Print" button to print message and return to the Home screen.

Inserting a Counter

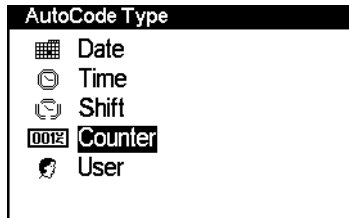
Refer to the Operation and Maintenance Manual for setting Counter Defaults.

From the Home screen:

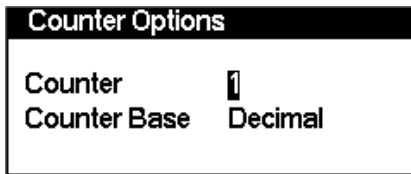


- Press the "Message" button.
- Press the "New" button.
- Enter a "Name" for the message then press "Enter". The new message is automatically saved in the Message Store once the sequence is completed.

- (4) Press the "Add Field" button and select the type of message required. In this example select "AutoCode" using the cursor buttons and press "Enter".
- (5) Select "Counter" from the "AutoCode Type" window by using the cursor and press "Enter"



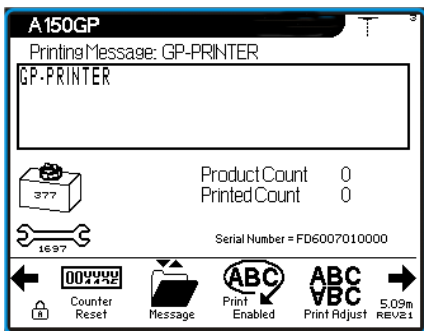
- (6) Select the counter to use and select the counter base options from decimal, binary and hexadecimal. Press "Enter" once completed.




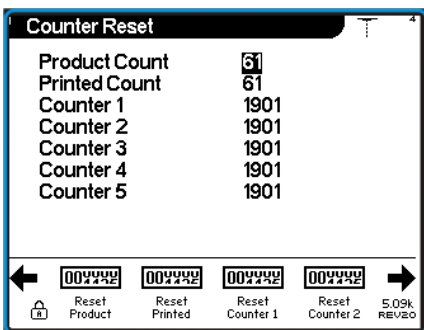
- (7) Press "Enter" to save or to change the counter values, scroll and press the "Counter" button. Select and change the required parameters. Press "Enter" to go to the Message Settings screen.
- (8) Press "Start Print" to print the counter in the message, and return to the Home Screen.
- (9) Press "Enter" to save and "Enter" again to go to the Print Message screen.
- (10) Press "Start Print" to print the counter in the message, and return to the Home Screen.

Counter Reset

From the Home screen:



- (1) Press the "Counter Reset"  button.
- (2) To Reset counters or to Reset a specific counter press the appropriate reset button.



- (3) The information displayed above will display the Product Count, Printed Count, and the actual count of the counters being used.
- (4) To reset the counters to the original start value, press one of the corresponding function buttons.
- (5) To reset a specific counter back to a different number, use the cursor buttons to scroll down to the counter.
- (6) Once the counter has been highlighted, press the left/right cursor button.

- (7) In the new window as below, type in the new start number, the press "Enter". The number will now change on counter 1 to the new value. Then press "Enter" again to save and return to the home page.

The screenshot shows a window titled "Counter Reset" with a list of counters and their values. The values for Counter 1, Counter 2, Counter 3, and Counter 4 are all 1901. The value for Counter 1 is highlighted in a box. Below the list, there is a text field containing "Counter 1: 1901". At the bottom left, there is a lock icon, and at the bottom right, there is the text "5.09k REV2.0".

Product Count	61
Printed Count	61
Counter 1	1901
Counter 2	1901
Counter 3	1901
Counter 4	1901

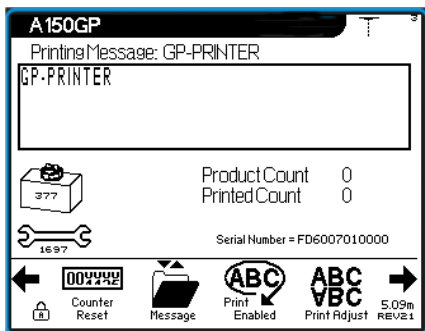
Counter 1: 1901



5.09k
REV2.0

Barcode Message Entry (Model Dependent)


Note: The barcodes available to use with the GP printer are: I2 of 5, code 39, code 128, UPC A, UCP E, EAN 13, EAN 8 and Datamatrix.

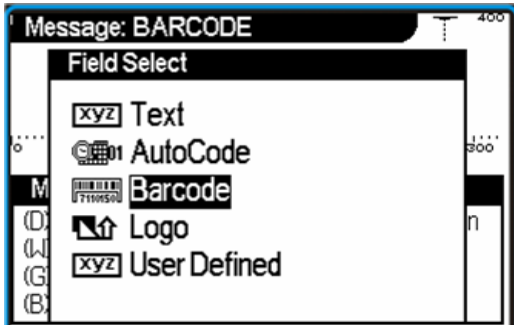
From the Home screen:



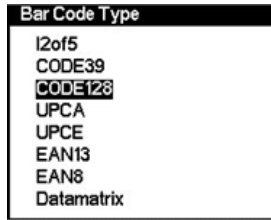
- (1) Press the "Message"  button to access the screen.
- (2) Press the "New"  button.
- (3) Enter a "Name" for the message then press "Enter" the new message is automatically saved in the message store once the sequence is completed.

Name: BARCODE

- (4) From the next window, set the "Message Settings".
- (5) Press the "Add Field"  button.
- (6) From the next window, select the type of message required. In this example select "Barcode" using the cursor buttons and press "Enter".



- (7) On the next screen select Code128 using the cursor buttons and press "Enter".



- (8) From the "Barcode Option" Screen, select Alphanumeric Display (Human readable code) "On" (If "Off" is selected, human readable code will be omitted from print) or Barcode Source if required.

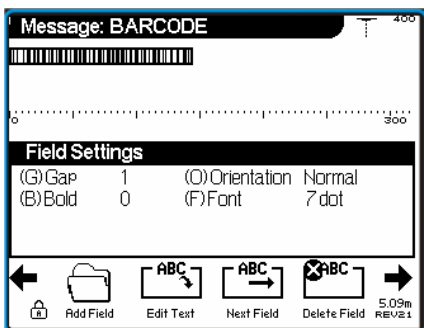
Note: If incorrect print font size or pixel size is selected, the Human Readable Code will not be displayed.



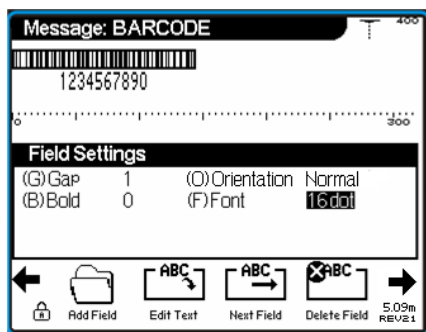
- (9) Enter the text in the popup window for the barcode, then press "Enter"


BarCode Text: 1234567890

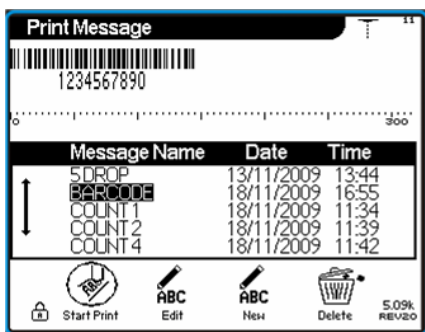
- (10) The Barcode then appears in the Message Window.



- (11) Press the (F) font function button and select 16 dot print using the cursor buttons, then press "Enter".
- (12) By changing the font size the human readable code is now visible under the barcode as shown below.

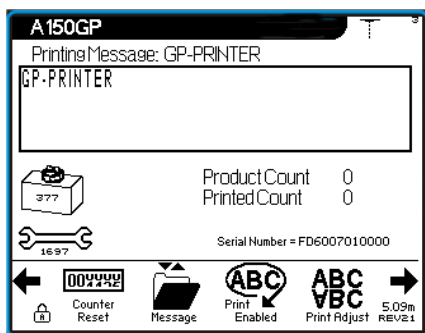




- (13) Press "Enter" once completed then "Enter" again to save the message.
- (14) Press the "Start Print"  button to print the message, and return to the home screen.

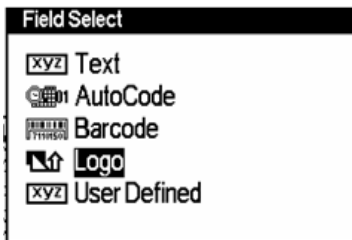


Inserting a Logo

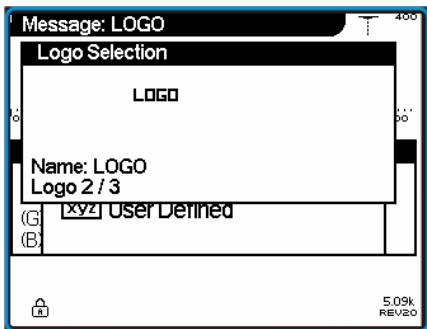
From the Home screen:



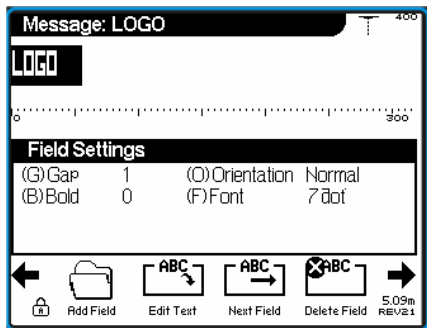
- (1) Press the "Message"  button.
- (2) Press the "New"  button.
- (3) Enter a "Name" for the new message then press "Enter". The new message will be automatically saved in the message store once the message has been completed.
- (4) From the next window, set the "Message Settings" before selecting "Add Field".
- (5) Select "Logo" from the "Field Select" screen using the cursor buttons and press "Enter".



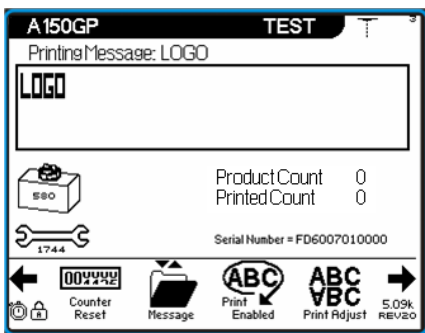
- (6) From the selection screen select the logo by using the up/down cursor buttons. When the required logo is displayed on the screen press "Enter".



- (7) The logo will now be displayed in the message screen. Field settings can be changed at this point. Ensure the correct "Pixel" size is selected on the message settings screen.



- (8) Press "Enter" to save the message and then press "Enter" again to return to the store screen. Press "Start Print" to print the highlighted message and return to the Home screen.



Printer States

Shown below are some of the more common printer states. Some of these may be shown on the top of the Home screen just below the Printer type bar as the printer is starting up or shutting down. An Icon will be displayed on the top right of the screen to show the Jet status.

Standby



The printer is in a standby state. The ink system is inactive but the user interface can still be used to enter information. Strobe LED flashing in Print head.

Getting ready to print



The printer is getting ready to print. The ink system is active and pressurised and jet is present at print head. Once this process is complete, the printer should be in the Ready to Print state with Jet on/off button LED flashing.

Ready to Print



The printer is ready to print. As long as a message is online the message will print on receiving a product detect signal. The ink system is active, pressurised ink jet is present at the print head. The Jet on/off button is constant and the strobe LED at the head is on constantly.

Not Ready to Print



The printer is going from the Ready to Print status to either Jet on Only or Standby status.

Note: Whilst this process is being carried out the ink system is active and pressurised until the process has been completed.

Heating



The printer is heating the print head to the optimum temperature for the ink. The ink system is active and pressurised as will be the print head. Once temperature is reached the jet will start and the printer will get ready to print.

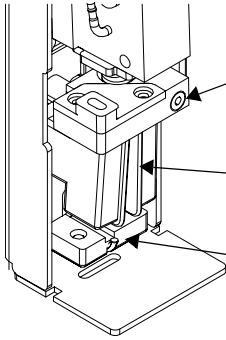
Fault Finding

No Indicators Showing	
Possible Cause	Possible Remedy
Power failure	Restore power
Fuse failure	Check Mains plug
Machine Does Not Print	
Possible Cause	Possible Remedy
Message faulty	Check data entry
Product detector (sensor) disconnected or faulty	Check sensor
Width control set too low	Reset width control
Faulty Shaft Encoder	Check shaft encoder and connector
External stroke source selected (where no encoder is fitted).	Change to internal stroke source.
Start Print button has not been pressed	Press Start Print button to send current message to print
The EHT has tripped	Check the print head and clean if necessary, if fault persists it may be necessary to align the print head

Print Position Incorrect	
Possible Cause	Possible Remedy
Print offset incorrect	Re-enter Print offset data
Product detector/sensor misaligned.	Re-align detector.
Spaces entered at start or end of message	Clear fixed spaces from input data
Print Size Too Small	
Possible Cause	Possible Remedy
Character height adjustment incorrect	Adjust print height
Jet alignment with deflector plates incorrect	Check jet alignment
Ink Pressure too high	Check and reset pressure if required
Solvent on deflector plates (after cleaning)	Dry deflector plates
Print head too close to product	Check position of print head
Incorrect size nozzle fitted.	Check and replace if necessary.
Gutter Over-flowing Ink	
Possible Cause	Possible Remedy
Gutter filter blocked	Replace gutter filter

Gutter tube blocked	Wash down and clear gutter
Air leak preventing vacuum at gutter	Check gutter circuit for leaks
Pressure set incorrectly	Adjust pressure
Blocked orifice	Flush orifice or replace distribution block

Cleaning the Print Head



Loosen screw and pull out the Charge Electrode. Clean in the slot with relevant wash, dry using lint free tissue.

Clean any ink residue from deflector plates

Clean any ink residue from gutter area

A-Series GP Print Head



This User Guide, part of pack 6-0199560, shows how to operate the Domino A-Series **GP** printer. For full details, please refer to the Operation and Maintenance Manual contained on the CD-ROM.

Domino Printing Sciences plc

Bar Hill

Cambridge CB23 8TU

England

Tel: +44 1954 782551

Fax: +44 1954 782874

Domino Amjet Inc.

1290 Lakeside Drive

Gurnee IL.60031

U.S.A.

Tel: +1 847 244 2501

Fax: +1 847 244 1421