GX-24 Control Panel Flow Chart

Visual Representation of the GX-24 Control Panel

This guide is a visual representation of the GX-24 menu structure with descriptions. Clicking on the menu in the flow chart will bring you to the description page.

Menu Flow Chart

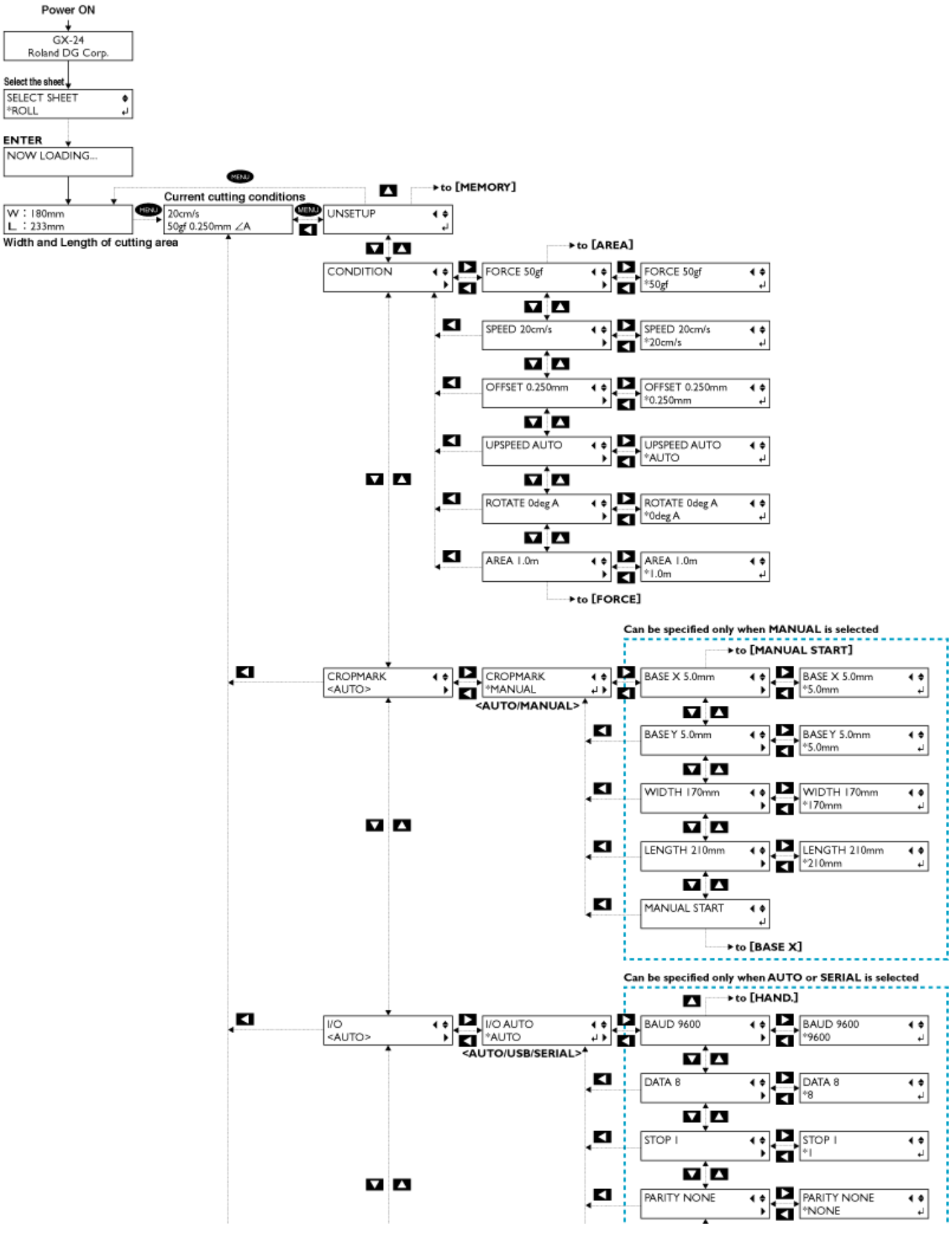
To view the description of each menu, click the corresponding menu in the figure.
The description of each menu is given in the following format.

Stored in Memory:	If **Yes** is indicated, the setting is stored even when the power is turned off.
Factory Default:	Indicates the factory default setting.
Setting Range (or Selection Choices):	Indicates **the range in which the settings can be specified** or **the possible choices**.
Description:	Provides an explanation of functions and matters that require caution.

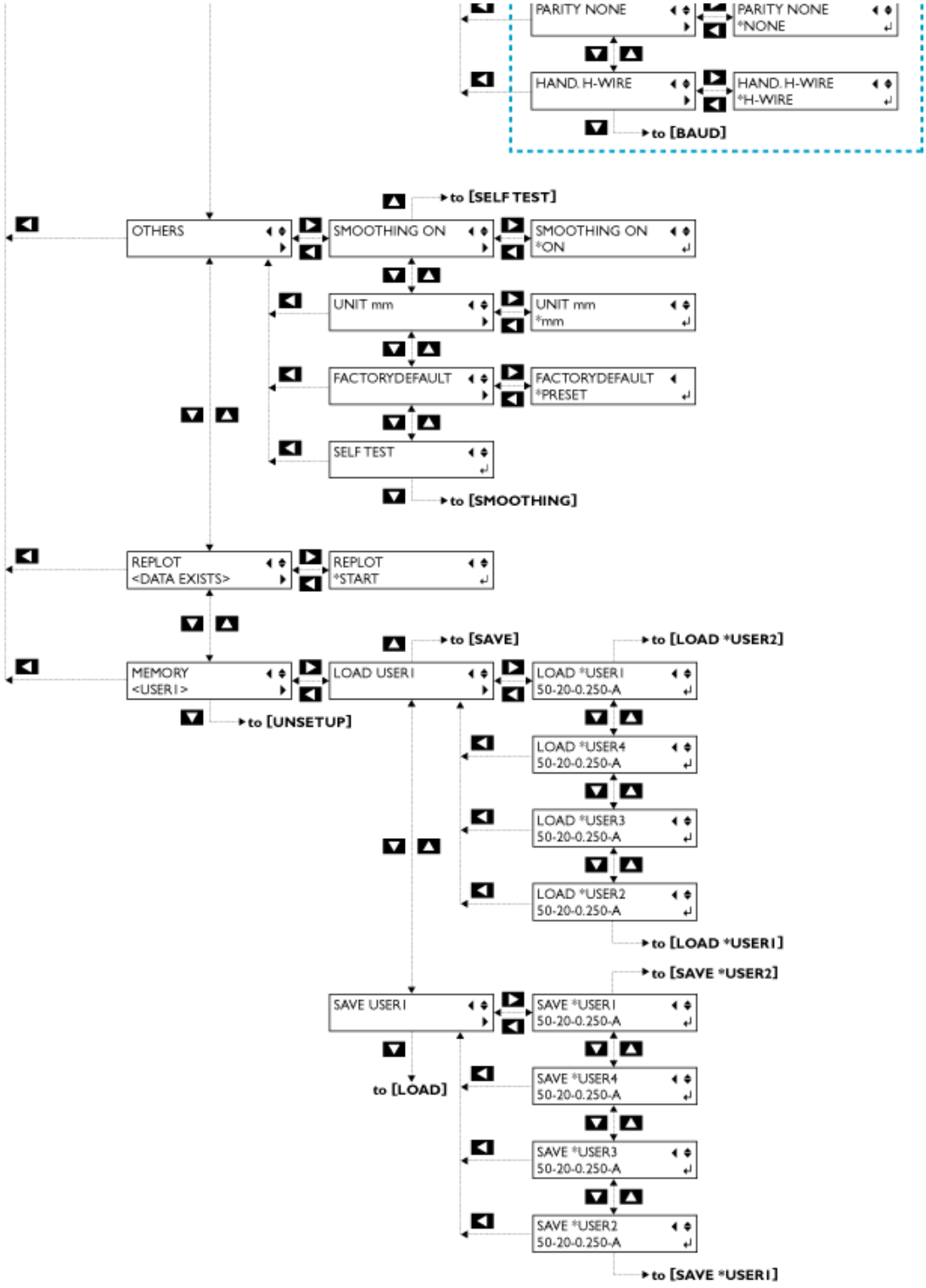
- **Display Menu**
- **Cutting Force Setup Menu**
- **Origin Setup Menu**
- **Pause Menu**
- **Language Selection Menu**

Menu Flow Chart

Display Menu

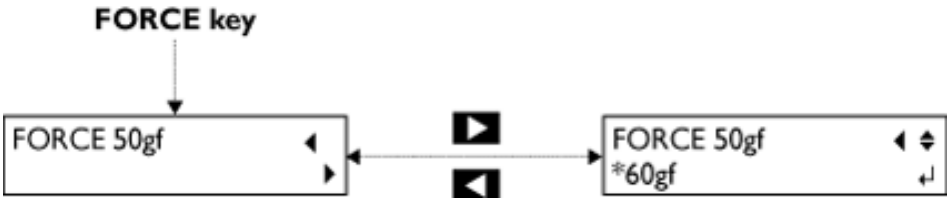


Menu Flow Chart

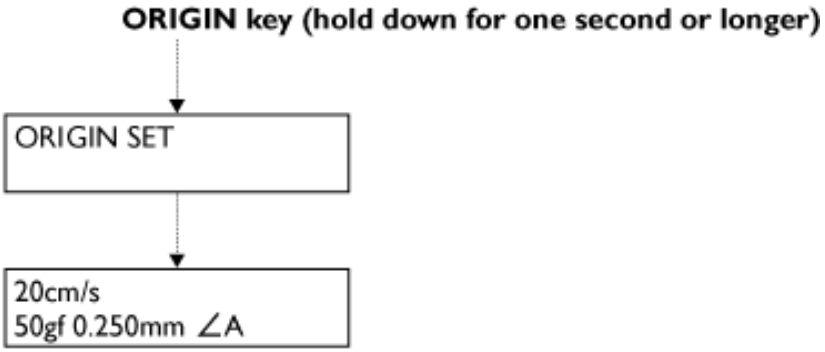


Menu Flow Chart

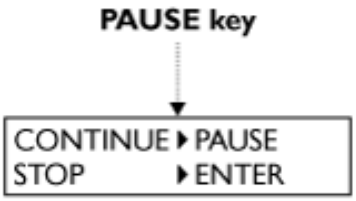
Cutting Force Setup Menu



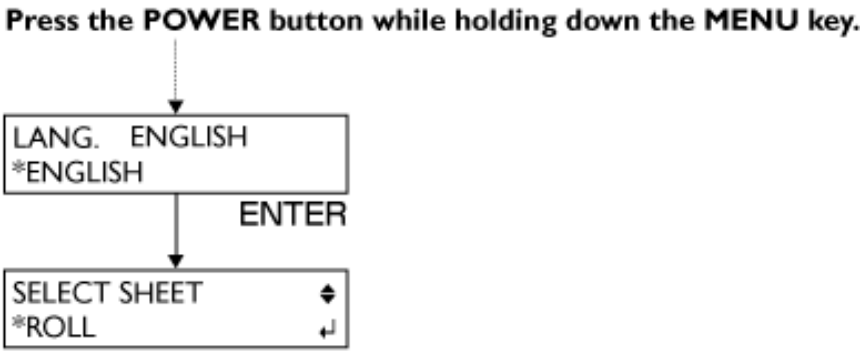
Origin Setup Menu



Pause Menu



Language Selection Menu



Menu Description

SELECT SHEET

Stored in Memory	**No**
Factory Default	**ROLL**
Selection Choices	**ROLL, PIECE, or EDGE**

Description

• ROLL
Performs cutting using roll material.

• PIECE
Performs cutting using standard-size material or piece material.

• EDGE
When using roll material, cutting is performed from the front-left edge of the material.
* When the setting for **ROTATE** on the display menu is **90deg**, cutting is performed from the front-right edge.

Menu Description

UNSETUP

Stored in Memory **No**

Description
Releases the setup condition when executed.

Menu Description

AREA

Stored in Memory	**Yes**
Factory Default	**1.0 m**
Setting Range	**24.9 m to -24.9 m (0.1 m steps)**

Description

This is used when cutting roll material or long, flat material that exceeds 1.6 m in length. This ensures that the material will not come loose during cutting by feeding out the length of material to be cut before actually performing cutting.

When performing continuous cutting on the same material, this can also be used to make sure that there is enough remaining material to cut the data that will be sent.

Menu Description

SPEED

Stored in Memory	**Yes**
Factory Default	**20 cm/s**
Setting Range	**1 to 50 cm/s (1 cm/s steps)**

Description
Sets the speed used when cutting material.
Set this to a suitable value for the loaded material and installed blade.

Menu Description

FORCE

Stored in Memory	**Yes**
Factory Default	**50 gf**
Setting Range	**30 to 250 gf (10 gf steps)**

Description
Sets the blade force used when cutting material.
Perform a cutting test and set the conditions to match the loaded material and the installed blade.

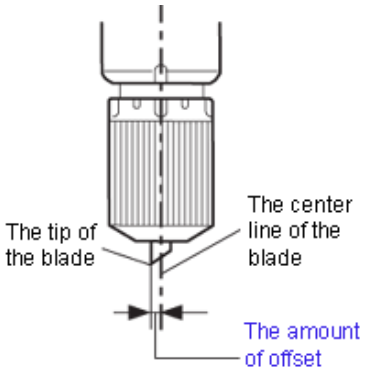
Menu Description

OFFSET

Stored in Memory	**Yes**
Factory Default	**0.250 mm**
Setting Range	**0.000 to 1.000 mm (0.025 mm steps)**

Description

Sets the amount of offset for the tip of the blade. Set a value that matches the conditions for the blade installed. When using the included blade or equivalent parts, cutting can be performed using the factory-default settings.



Menu Description

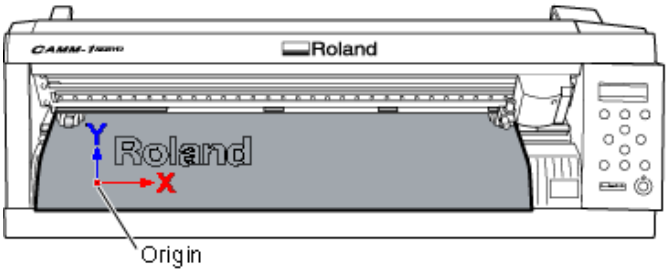
ROTATE

Stored in Memory	**Yes**
Factory Default	**0deg**
Selection Choices	**0deg or 90deg**

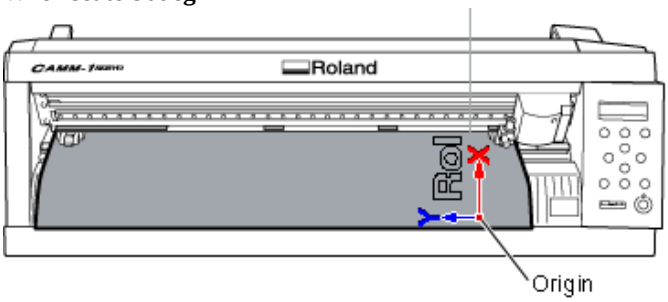
Description
Sets the direction of the coordinate axis for cutting.
When set to **0deg** (default value), the origin is set at the lower left of the material.
When set to **90deg**, the origin is set at the lower right of the material, and the data is rotated counterclockwise by 90 degrees.
Note that
when **90deg** is selected, the coordinate axis changes.

The arrows in the figure indicate the positive directions of X and Y axes.

When set to **0deg**



When set to **90deg**



If you are using crop marks, be sure to select 0deg.

Menu Description

UPSPEED

Stored in Memory	**Yes**
Factory Default	**AUTO**
Setting Range	**10 to 50 cm/s (10 cm/s steps) or AUTO**

Description
Sets the speed for moving the blade to the next cutting position with the blade lifted off the material during cutting operation.
If set to **AUTO**, the blade moves at the speed specified by **SPEED**.
If **UPSPEED** is increased, the cutting time is shortened.
When cutting material that is thinner or thicker than the standard material, it may be better to decrease the speed such as to prevent the material from being lifted up.

Menu Description

SAVE

Stored in Memory	**Yes**
Factory Default	**USER1**
Selection Choices	**USER1, USER2, USER3, or USER4**

Description
Stores the setting values of menus that are now being used.
The menus that you can register are as follows

FORCE, SPEED, OFFSET, UPSPEED, and ROTATE

The registered settings can be called up using LOAD.

Menu Description

LOAD

Stored in Memory	**Yes**
Factory Default	**USER1**
Selection Choices	**USER1, USER2, USER3, or USER4**

Description
Calls up the setting values stored using SAVE.

Menu Description

SMOOTHING

Stored in Memory	**Yes**
Factory Default	**ON**
Selection Choices	**ON or OFF**

Description

• ON
Cuts curves such as arcs smoothly.
However, the corners may be rounded when a small character or a complex shape is cut.

• OFF
Select **OFF** when the corners are rounded.

Menu Description

LANG.

Stored in Memory	**Yes**
Factory Default	**ENGLISH**
Selection Choices	**ENGLISH, ニホンゴ, PORTOG, ITAL, ESPAN, FRANC, or DEUT**

Description

Selects the language for messages on the display.

- **ENGLISH: English**
- **ニホンゴ: Japanese**
- **PORTOG: Portuguese**
- **ITAL: Italian**
- **ESPAN: Spanish**
- **DEUT: German**

Menu Description

UNIT

Stored in Memory	**Yes**
Factory Default	**mm**
Selection Choices	**mm or inch**

Description
Selects the unit of measurement for numerical values shown on the display.
However, values are shown in metrics for the following menus even when **inch** is selected.

- **SPEED**
- **OFFSET**

Menu Description

FACTORYDEFAULT

Description
Resets the display menu values to the same settings as their factory defaults.
However, the setting for **LANG.** is not reset.

Menu Description

I/O

Stored in Memory	**Yes**
Factory Default	**AUTO**
Selection Choices	**AUTO, USB, or SERIAL**

Description
Specifies the type of interface for connection to the computer.

• AUTO
Selects the port automatically. The communication parameters for serial connection are set according to the settings made on the GX-24.
If the interface is not recognized correctly when set to AUTO, use the menu to choose the type of interface you're using.

• USB
Choose this when connected to the computer using a USB cable.

• SERIAL
Choose this when connected to the computer using a serial cable.

Menu Description

BAUD

Stored in Memory	**Yes**
Factory Default	**9600**
Selection Choices	**4800 or 9600**

Description
Sets the communication speed for a serial connection.
It is effective only when connected to the computer using a serial cable.

Menu Description

DATA

Stored in Memory	**Yes**
Factory Default	**8**
Selection Choices	**8 or 7**

Description
Sets the number of data bits for a serial connection.
It is effective only when connected to the computer using a serial cable.

Menu Description

STOP

Stored in Memory	**Yes**
Factory Default	**1**
Selection Choices	**1 or 2**

Description
Sets the number of stop bits for a serial connection.
It is effective only when connected to the computer using a serial cable.

Menu Description

PARITY

Stored in Memory	**Yes**
Factory Default	**NONE**
Selection Choices	**NONE, EVEN, or ODD**

Description
Sets the type of parity checking for a serial connection.
It is effective only when connected to the computer using a serial cable.

Menu Description

HAND.

Stored in Memory	**Yes**
Factory Default	**H-WIRE**
Selection Choices	**H-WIRE or XONOFF**

Description
Sets the handshaking (flow control) for a serial connection.
It is effective only when connected to the computer using a serial cable.

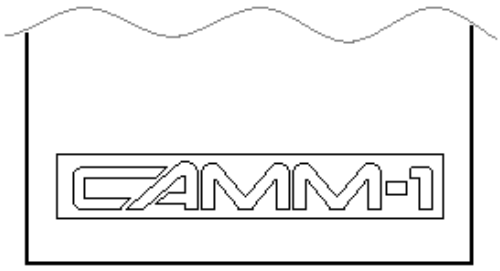
Menu Description

SELF TEST

Description

Executes a self test to check the status of the GX-24. Use this to check the GX-24 when it appears to be not operating correctly.

If the self test is executed and the test pattern in the figure is cut, the machine is operating correctly.



Menu Description

REPLOT

Stored in Memory	**No**
Selection Choices	**START or CLEAR**

Description

• START
Performs cutting using the data in the replot buffer when the **ENTER** key is pressed.

• CLEAR
Deletes the data in the replot buffer when the **ENTER** key is pressed.

Menu Description

MANUAL START

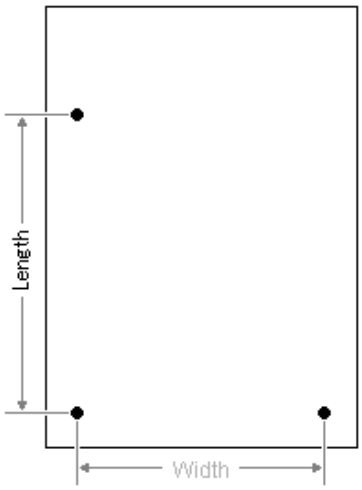
Description
Starts the reading of crop marks.
This can be executed only when **CROPMARK** is set to MANUAL.

Menu Description

LENGTH

Stored in Memory	**Yes**
Factory Default	**210 mm**
Setting Range	**50 to 500 mm (1 mm steps)**

Description
Sets the **distance between the centers** of the top and bottom **crop marks**.
Specify the same value as the distance between the center of the two crop marks specified by the program.
This can be specified only when **CROPMARK** is set to MANUAL.

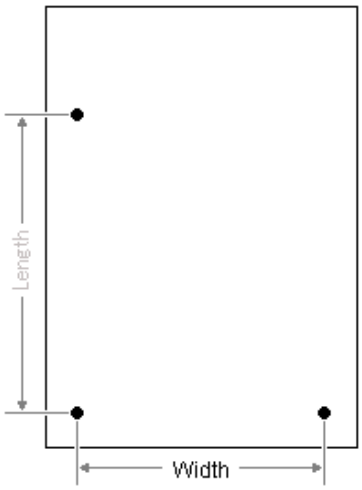


Menu Description

WIDTH

Stored in Memory	**Yes**
Factory Default	**170 mm**
Setting Range	**50 to 610 mm (1 mm steps)**

Description
Sets the **distance between the centers** of the right and left **crop marks**.
Specify the same value as the distance between the center of the two crop marks specified by the program.
This can be specified only when **CROPMARK** is set to MANUAL.

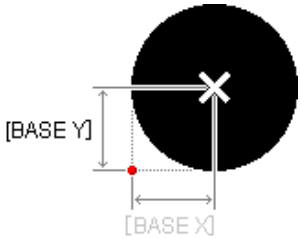


Menu Description

BASE Y

Stored in Memory	**Yes**
Factory Default	**5.0 mm**
Setting Range	**0.0 to 50.0 mm (0.1 mm steps)**

Description
Specifies the distance in **Y-direction** between the center of a **crop mark** and the origin point.
Normally, set the value to the radius of the crop marks specified by the program.
This can be specified only when **CROPMARK** is set to MANUAL.

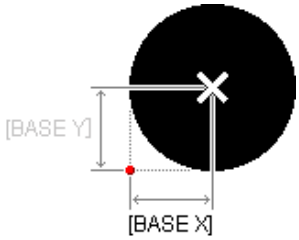


Menu Description

BASE X

Stored in Memory	**Yes**
Factory Default	**5.0 mm**
Setting Range	**0.0 to 50.0 mm (0.1 mm steps)**

Description
Specifies the distance in **X-direction** between the center of a **crop mark** and the origin point.
Normally, set the value to the radius of the crop marks specified by the program.
This can be specified only when **CROPMARK** is set to MANUAL.



Menu Description

CROPMARK

Stored in Memory	**Yes**
Factory Default	**AUTO**
Selection Choices	**AUTO or MANUAL**

Description
Sets the method for reading crop marks.
If MANUAL is selected, the crop marks must be specified by entering the size and spacing of the crop marks.