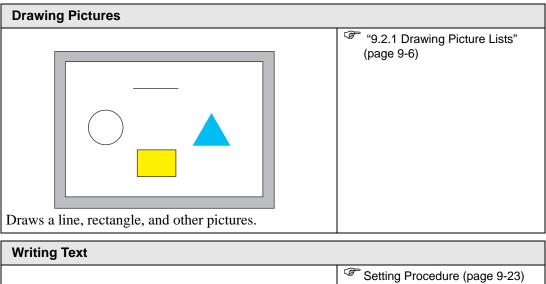
9 Draw (Figures/Text)

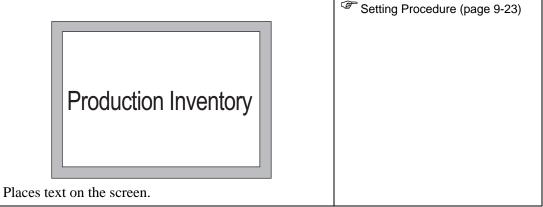
This chapter provides an overview of the draw/edit tools and how to draw figures and text in GP-Pro EX.

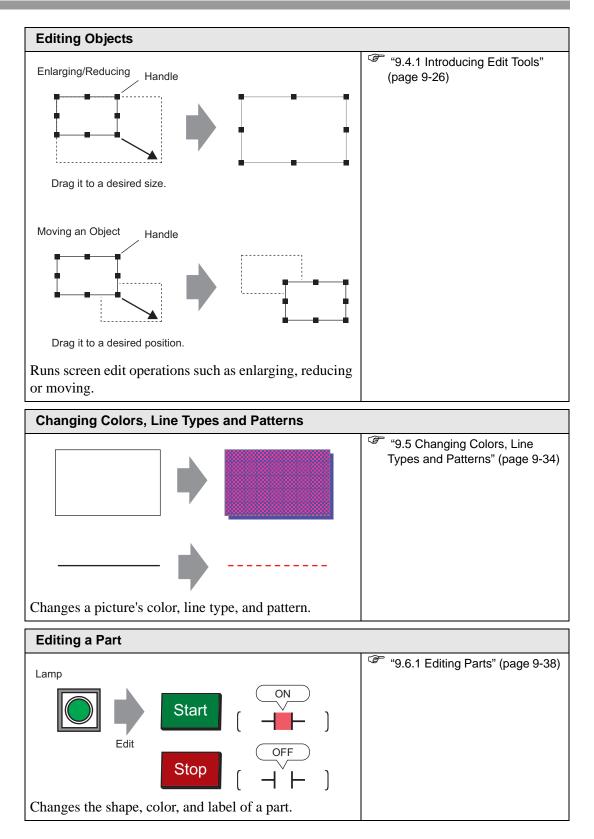
Read "9.1 Settings Menu" (page 9-2) first, then skip to the explanations as required.

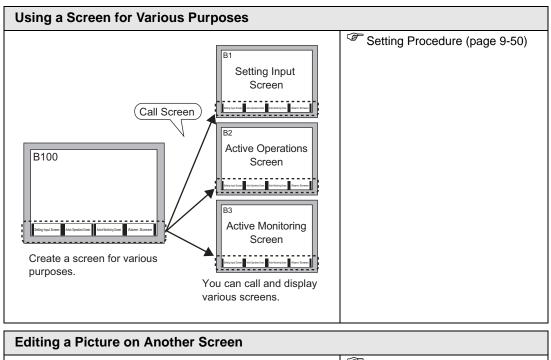
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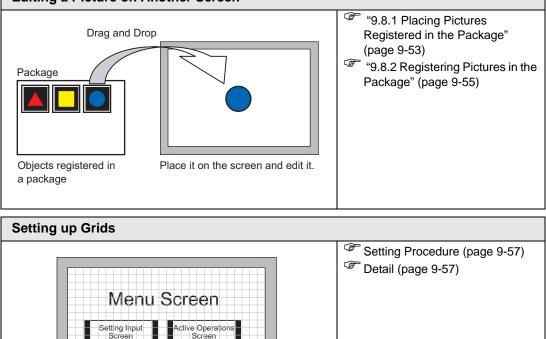
9.1 Settings Menu



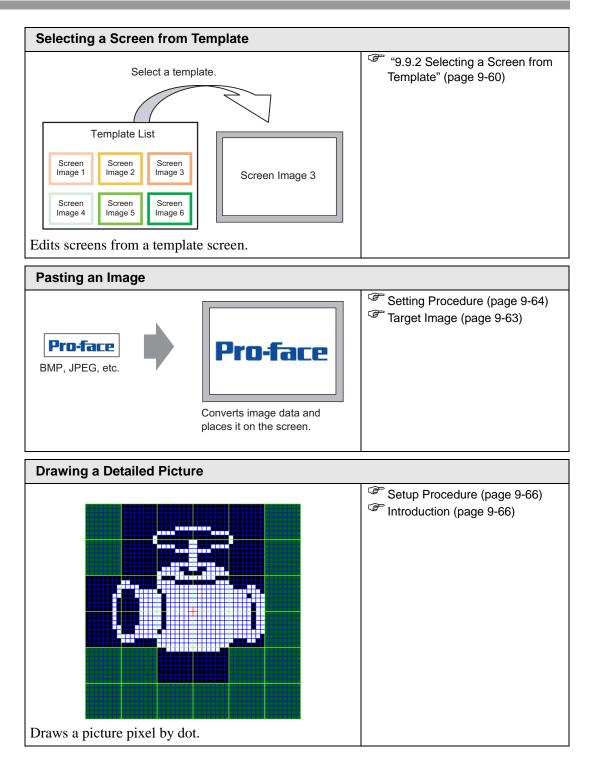








Displays an equally spaced grid on the editing screen and places parts with reference to an intersecting point.



9.2 Drawing Pictures

9.2.1 Drawing Picture Lists

Picture		Description
Dot		Draws a dot. ⁽²⁷⁾ "9.2.2 Drawing by Pixels" (page 9-6)
Line/ Polyline	/	Draws a line/polyline. ⁽³⁷⁾ "9.2.3 Drawing Line/Polyline" (page 9-7)
Rectangle		Draws a rectangle. ⁽²⁷⁾ "9.2.4 Drawing Rectangles" (page 9-8)
Polygon	\bigcirc	Draws a polygon. ⁽²⁷⁾ "9.2.7 Drawing Polygons" (page 9-16)
Circle/Oval	U	Draws a circle/oval. ⁽²⁷⁾ "9.2.5 Drawing Circles/Ovals" (page 9-11)
Arc/Pie	\sim	Draws an arc/pie. ⁽²⁷⁾ "9.2.6 Drawing Arcs/Pies" (page 9-14)
Scale	Innte	Draws the graph scales. ⁽²⁷⁾ "9.2.8 Drawing Scales" (page 9-18)
Table	≣	Draws a table. ⁽²⁷⁾ "9.2.9 Drawing Tables" (page 9-20)

9.2.2 Drawing by Pixels

The Dot feature can draw one to five dots at a time.

From the [Draw (D)] menu, select [Dot (D)] command or click \bullet to place a dot on the screen. If you click \downarrow and double-click the placed [Dot], the following dialog box appears.

💰 Dot						×
	Size	β	<u>=</u>			
	Color	7	•	Blink	None	•
				к (<u>о</u>)	Cano	cel

For display colors, refer to "9.5.1 Setting Colors" (page 9-34)

For blinking, refer to "9.5.2 Setting Blinks" (page 9-37)

9.2.3 Drawing Line/Polyline

Drag the mouse to draw a line from the start to the end. For the polyline, click to designate the start, the mountain fold and the end, and right-click to set.

From the [Draw (D)] menu, select [Line (L)] or [Polyline (U)], or click \checkmark or \checkmark to place a line/polyline on the screen. If you click \downarrow and double-click the placed [Line] or [Polyline], the following dialog box appears.

- If you press and hold the [Shift] key while placing a line, you can draw a line at an angle of 0 degrees and 90 degrees.
 - If you place a line while pressing the [Ctrl] key, you can draw a line extending from the center. If you place a line while pressing the [Ctrl] and [Shift] keys at the same time, you can draw a line of 0 degrees or 90 degrees extending from the center.
 - To edit after placing the line and polyline, click on the selected line to change to a yellow handle. You can drag the line to change the shape.
 - For a polyline, you can left click and drag to draw, similar to handwriting.

💰 Line/Polyline					×
	Line Type	Solid Line)	-	
	Line Thickness	1			
	Arrow Shape	— None	•		
	Arrow Direction	End	7		
	Display Color 🛛	7	👻 Blink	None	-
	Pattern Color	0	👻 Blink	None	7
			<u>OK (0)</u>	Cancel	

Setting	Description
Line Type	Select the line type from [Solid Line], [Dotted Line], [Dash Line], [Chain
	Line], or [Two-Dot Chain Line].
	⁽²⁷⁾ "9.5.3 Setting Line Types" (page 9-37)
Line Thickness	Set the line thickness within the range of one to nine dots.
	NOTE
	• When line types other than [Solid Line] are selected in [Line Type], the
	setting range is one to two dots.
Arrow Shape	Select the arrow shape from $-$, \leftarrow , \leftarrow , \leftarrow , \leftarrow or \leftarrow .
Arrow Direction	Select the arrow direction from [Start], [End], or [Both Ends].
Display Color	Set the line color.
	"9.5.1 Setting Colors" (page 9-34)
Pattern Color	Select the pattern color. This function can be used only when line types
	other than [Solid Line] are selected in [Line Type].

Continued

Setting	Description
Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for [Display Color] and [Pattern Color] of the part.
	 NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34)

9.2.4 Drawing Rectangles

Draw a rectangle by dragging the mouse to specify two opposite corners.

In the [Draw (D)] menu, select [Rectangle (R)] or click \Box to place a rectangle on the screen.

Double-click the placed [Rectangle] to display the following dialog box.

- If you press and hold the [Shift] key while drawing a rectangle, the object is forced into a square.
 - If you place a rectangle while pressing the [Ctrl] key, you can draw a rectangle spreading out from the center. If you place a rectangle while pressing the [Ctrl] and [Shift] keys at the same time, you can draw a square spreading out from the center.

💰 Rectangle	X
	Border
	Line Type - Solid Line 👤
	Line Thickness 👖 🚍
	Display Color 7 Blink None 🔽
	Pattern Color 🔲 0 🚽 Blink None 💌
Chamfer	
None 💌	Pattern None
Number of Pixels	Display Color 7 Blink None
β <u>→</u> ∰	Pattern Color Blink None 💌
	Shadow
	Direction Bottom Right
	Color 🗾
	Shadow Distance 4
	Cancel

Setting		Description		
Border	Line Type	Select the line type from [Solid Line], [Dotted Line], [Dash Line], [Chain Line], or [Two-Dot Chain Line]. * "9.5.3 Setting Line Types" (page 9-37)		
	Line Thickness	 Set the line thickness within the range of one to nine dots. NOTE When other line types than [Solid Line] are selected in [Line Type], the line thickness is fixed at one dot. 		
	Display Color	Set the border color. © "9.5.1 Setting Colors" (page 9-34)		
	Pattern Color	Select the pattern color. This function can be used only when line types other than [Solid Line] are selected in [Line Type]. *9.5.4 Setting Patterns" (page 9-37)		
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part.		
		 NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34) 		

Continued

Setting		Description
Fill	Pattern	Set a background pattern for the rectangle.
		(9.5.4 Setting Patterns" (page 9-37)
	Display Color	Set a color for the rectangle.
		(9.5.1 Setting Colors" (page 9-34)
	Pattern Color	Set the background pattern color for the rectangle.
		"9.5.4 Setting Patterns" (page 9-37)
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part.
		 NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34)
Shadow	Direction	Select the shadow direction from [Top Left], [Bottom Left], [Top Right], or [Bottom Right].
	Color	Set the shadow color.
		"9.5.1 Setting Colors" (page 9-34)
	Shadow Distance	Set the width of the picture and the shadow within the range of 1 to 16.
Chamfer		Select the chamfer shape from [None], [Line], or [Circle].
Number of Dots		Designate the number of dots for chamfer from 1 to 999.

9.2.5 Drawing Circles/Ovals

Draw a circle or oval by dragging the mouse to specify the center point and one point on the circle.

From the [Draw (D)] menu, select [Circle/Oval (C)] or click \bigcirc to place a circle/oval on the screen. If you $\frac{1}{2}$ double-click the placed [Circle/Oval], the following dialog box appears.

NOTE	 If you press and hold the [Shift] key while placing an object, you can draw a circle. If you place a circle/oval while pressing the [Ctrl] key, you can draw a circle/ oval spreading out from the center. If you place a circle/oval while pressing the [Ctrl] and [Shift] keys at the same time, you can draw a circle spreading out from the center.

💰 Circle/Oval		x
\bigcirc	✓ Border Line Type Solid Line Line Thickness Image: Solid Line Display Color 7 Pattern Color Image: Solid Line	-
	Fill Pattern None Display Color 7 Blink Pattern Color 0 Blink	
	Direction Bottom Right Color Shadow Distance 4	
	Cancel	

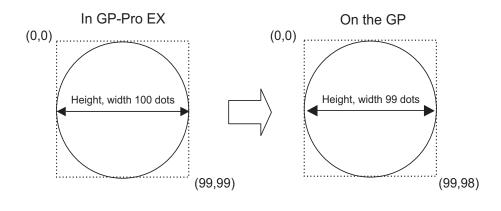
Setting		Description		
Border	Line Type	Select the line type from [Solid Line], [Dotted Line], [Dash Line], [Chain Line], or [Two-Dot Chain Line]. ** "9.5.3 Setting Line Types" (page 9-37)		
	Line Thickness	 Set the line thickness within the range of one to nine dots. NOTE When other line types than [Solid Line] are selected in [Line Type], the line thickness is fixed at one dot. 		
	Display Color	Set the border color. ⁽²⁾ "9.5.1 Setting Colors" (page 9-34)		
	Pattern Color	Select the pattern color. This function can be used only when line types other than [Solid Line] are selected in [Line Type].		
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part.		
		 • There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. ⁽²⁾ "9.5.1 Setting Colors" (page 9-34) 		

Continued

Setting		Description		
Fill	Pattern	Set the background pattern for the circle/oval.		
		(9.5.4 Setting Patterns" (page 9-37)		
	Display Color	Set a color for the circle/oval.		
		(Page 9-34)		
	Pattern Color	Set the background pattern color for the circle/oval.		
		"9.5.4 Setting Patterns" (page 9-37)		
	Blink	Select whether or not the Part will blink, and the blink speed. You can		
		choose different blink settings for the [Display Color] and [Pattern		
		Color] of the part.		
		NOTE		
		• There are cases where you can and cannot set Blink depending on		
		the Display and System Settings [Color Settings].		
		(9.5.1 Setting Colors" (page 9-34)		
Shadow	Direction	Select the shadow direction from [Top Left], [Bottom Left], [Top		
		Right], or [Bottom Right].		
	Color	Set the shadow color.		
		(Page 9-34)		
	Shadow	Set the width of the circle/oval and the shadow within the range of 1		
	Distance	to 16.		

NOTE

• You can set the width and height of a circle/oval in the [Properties (P)]. However, if you set the width or height to an even number, it will be drawn with one less dot on the GP.



9.2.6 Drawing Arcs/Pies

Draw an arc or pie by dragging the mouse to specify the center point and one point on the circle, and specify the start angle and end angle in the dialog box. You can select an arc or pie.

From the [Draw (D)] menu, select [Arc/Pie (A)] or click \checkmark to place an arc/pie on the screen. If you click \checkmark and double-click the placed [Arc/Pie], the following dialog box appears.

- If you press and hold the [Shift] key while placing an object, you can draw a circle arc.
 - If you place an arc/pie while pressing the [Ctrl] key, you can draw a circle/ oval's arc spreading out from the center. If you place an arc/pie while pressing the [Ctrl] and [Shift] keys at the same time, you can draw a circle's arc spreading out from the center.
 - If you edit an arc/pie after placing it, you can change the arc/pie's start angle and end angle by operating the yellow handle in the selected state.
 - You can set the width and height of an arc/pie in the [Properties (P)]. However, if you set the width or height to an even number, it will be drawn with one less dot on the GP.

💰 Arc/Pie						×
	Border					
	Line Type Line Thickness Display Color Pattern Color	Solid Line		▼ Blink Blink	None None	*
Arc Pie	Fill Pattern Display Color Pattern Color	None	<u>*</u>	▼ Blink Blink	None	¥
Start Angle P 🔅 🗮 End Angle P0 🔆 🚆	Direction Color	Bottom Right			. None	
	Shadow Distance	 4	ок (<u>о</u>)		Canc	el

Setting		Description		
Border	Line Type	Select the line type from [Solid Line], [Dotted Line], [Dash Line],		
		[Chain Line], or [Two-Dot Chain Line].		
	Line	Set the line thickness within the range of one to nine dots.		
	Thickness	NOTE		
		• When other line types than [Solid Line] are selected in [Line Type], the line thickness is fixed at one dot.		
	Display Color	Set the arc/pie border color.		
	Pattern Color	Select the pattern color. This function can be used only when line types other than [Solid Line] are selected in [Line Type].		
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part.		
		 NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34) 		
Fill	Pattern	Select a background pattern for the pie.		
	Display Color	Set the pie's color.		
	Pattern Color	Set the background pattern color for the pie.		
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part.		
		 NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34) 		
Shadow	Direction	Select the shadow direction from [Top Left], [Bottom Left], [Top Right], or [Bottom Right].		
	Color	Set the shadow color.		
	Shadow Distance	Set the width of the arc/pie and its shadow within the range of 1 to 16.		
Arc/Pie		Select from [Arc] or [Pie].		
Start Angle/End Angle		Set the [Start Angle] or [End Angle].		

NOTE

9.2.7 Drawing Polygons

To draw a polygon, click each apex and right-click to define a polygon. From the [Draw (D)] menu, select [Polygon (P)] or click \bigcirc to place a polygon on the

screen. If you click i and double-click the placed [Polygon], the following dialog box appears.

• To edit a polygon, click on a line in the polygon to change to a yellow handle. You can drag a line on the polygon to change the shape.

💰 Polygon	×
$\overline{\langle}$	✓ Border Line Type Solid Line Line Thickness Jisplay Color 7 Pattern Color
	Fill Pattern None Display Color 7 V Pattern Color 0 V
	Shadow Direction Bottom Right Color Shadow Distance OK (Q) Cancel

Setting		Description		
Border	Line Type	Select the line type from [Solid Line], [Dotted Line], [Dash Line], [Chain Line], or [Two-Dot Chain Line]. ** "9.5.3 Setting Line Types" (page 9-37)		
	Line Thickness	 Set the line thickness within the range of one to nine dots. NOTE When other line types than [Solid Line] are selected in [Line Type], the line thickness is fixed at one dot. 		
	Display Color	Set the border color. ⁽²⁾ "9.5.1 Setting Colors" (page 9-34)		
	Pattern Color	Select the pattern color. This function can be used only when line types other than [Solid Line] are selected in [Line Type]. ** "9.5.4 Setting Patterns" (page 9-37)		
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part.		
		 NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34) 		

Setting		Description		
		Continued		
Fill	Pattern	Set a background pattern for the polygon.		
		"9.5.4 Setting Patterns" (page 9-37)		
	Display Color	Set a color for the polygon.		
		"9.5.1 Setting Colors" (page 9-34)		
	Pattern Color	Set a background pattern's color for the polygon.		
		"9.5.4 Setting Patterns" (page 9-37)		
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part.		
		 NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34) 		
Shadow	Direction	Select the shadow direction from [Top Left], [Bottom Left], [Top Right], or [Bottom Right].		
	Color	Set the shadow color.		
		"9.5.1 Setting Colors" (page 9-34)		
	Shadow	Set the width of the polygon and its shadow within the range of 1 to		
	Distance	16.		

9.2.8 Drawing Scales

Draw a scale by dragging to specify two opposite corners. Set the divisions of the scale in the following dialog box.

From the [Draw (D)] menu, select [Scale (S)] or click **\downarrow** to place a scale on the screen. If you click \downarrow and double-click the placed [Scale], the following dialog box appears.

• To edit a scale after placing it, click the line in the selected state to make it a yellow handle. You can change the scale type by operating the yellow handle axis.

<i>ő</i> Scale					×
	Scale Line Type Line Thickness Display Color Pattern Color	I Tolid Line		▼ Blink None Blink None	•
Туре	Major Scale Divisions Length	5 33			
 Bar (Vertical) Bar (Horizontal) Arc 	Minor Scale Divisions Length	8 32			
Start Angle	Draw Axis	Left	•		
			OK (<u>O</u>)) Cano	el

Setting		Description		
Scale	Line Type	Select the line type from [Solid Line], [Dotted Line], [Dash Line], [Chain Line], or [Two-Dot Chain Line]. ** "9.5.3 Setting Line Types" (page 9-37)		
	Line Thickness	 Set the line thickness within the range of one to nine dots. NOTE When line types other than [Solid Line] are selected in [Line Type], the setting range is one to two dots. 		
	Display Color	Select the scale color. (Page 9-34)		
	Pattern Color	Select the pattern color. This function can be used only when line types other than [Solid Line] are selected in [Line Type].		
	Blink	 Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part. NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34) 		

Setting		Description
Major Scale	Divisions	Select from 1 to 999 large-scale axis divisions.
		Large Scale
	Length	Select the large scale length from 2 to 3,072.
Minor Scale	Divisions	Select from 2 to 999 minor-scale axis divisions.
		/ Minor Scale
	Length	Select the minor scale length from 1 to 3,071.
Draw Axis	Axis Position	Select the scale direction from the axis from [Left] or [Right].
Туре	Bar (Vertical)	Displays the scale for a vertical bar graph.
	Bar (Horizontal)	Displays the scale for a horizontal bar graph.
	Arc	Displays the scale for a circle graph.
		NOTE
		• You can set the width and height of a scale in [Edit (E)], [Change
		Attributes (M)]. However, if you set the width or height to an even number, it will be drawn with one less dot on the GP.
Start Ang	gle/End Angle	Set the [Start Angle] or [End Angle].

9.2.9 Drawing Tables

Draw a table by dragging to specify two opposite corners. Set the rungs and number of columns in the following dialog box.

From the [Draw (D)] menu, select [Table (T)] or click \blacksquare and to place a table on the screen. If you double-click the placed [Table], the following dialog box appears.

• To edit the table after placing it, click a line of the table in the selected state to make it a yellow handle. You can change the inside border spacing by operating the yellow handle.

• How When you click this icon, drag to select the table frame borders and move the pointer $\frac{1}{2}$ to the drawing area to place the defined table.

💰 Table		X
	Show Border Line Type Solid Line Line Thickness Display Color 7 Blink None Pattern Color Blink None	44
Pixels Between Equal Spacing	Inside Border Line Type Solid Line Line Thickness Display Color 7 Blink None Pattern Color 0 Blink None	
Vertical β 👬 🎬 Horizontal β 👬	Fill Pattern None Display Color 46 Pattern Color 7 Blink None	4 4
	Cancel	

Setting		Description		
Show Border	Line Type	Select the line type from [Solid Line], [Dotted Line], [Dash Line], [Chain Line], or [Two-Dot Chain Line]. ** "9.5.3 Setting Line Types" (page 9-37)		
	Line Thickness	 Set the line thickness within the range of one to nine dots. NOTE When other line types than [Solid Line] are selected in [Line Type], the line thickness is fixed at one dot. 		
	Display Color	Set the outer border color for the table. ⁽²⁾ "9.5.1 Setting Colors" (page 9-34)		
	Pattern Color	Select the pattern color. This function can be used only when line types other than [Solid Line] are selected in [Line Type].		
	Blink	 Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part. NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. * "9.5.1 Setting Colors" (page 9-34) 		
Inside Border	Line Type	Select the line type from [Solid Line], [Dotted Line], [Dash Line], [Chain Line], or [Two-Dot Chain Line]. ** "9.5.3 Setting Line Types" (page 9-37)		
	Line Thickness	 Set the line thickness within the range of one to nine dots. NOTE When other line types than [Solid Line] are selected in [Line Type], the line thickness is fixed at one dot. 		
	Display Color	Set the inside border color for the table. ⁽²⁾ "9.5.1 Setting Colors" (page 9-34)		
	Pattern Color	Select the pattern color. This function can be used only when line types other than [Solid Line] are selected in [Line Type]. ^(F) "9.5.4 Setting Patterns" (page 9-37)		
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part. NOTE • There are cases where you can and cannot set Blink depending on		
		the Display and System Settings [Color Settings].		

Continued

Setting		Description		
Fill	Pattern	Select a background pattern for the table.		
		⁽²⁷⁾ "9.5.4 Setting Patterns" (page 9-37)		
	Display Color	Set the table color.		
		(9.5.1 Setting Colors" (page 9-34)		
	Pattern Color	Set the background pattern color for the table.		
		(9.5.4 Setting Patterns" (page 9-37)		
	Blink	Select whether or not the Part will blink, and the blink speed. You can choose different blink settings for the [Display Color] and [Pattern Color] of the part.		
		 NOTE There are cases where you can and cannot set Blink depending on the Display and System Settings [Color Settings]. "9.5.1 Setting Colors" (page 9-34) 		
Pixels Between		 Select from [Equal Spacing] or [Free]. Equal Spacing The row width and column width are made equal. 		
		• Free The row width and column width can be adjusted freely.		
Divisions		Designate the number of rows [Vertical] and number of columns [Horizontal] in the table from 1 to 30.		

9.3 Writing Text

Draw text on the drawing screen.

To draw text in order to switch the screen display languages or display content while operating the GP, use a text table. For the settings, refer to "15.4 Changing Languages (Multilanguage)" (page 15-16).

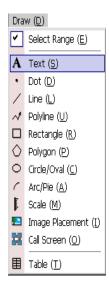
9.3.1 Setup Procedure

NOTE	• Please refer to the settings guide for details.
NOTE	"9.12.1 Text Settings Guide" (page 9-77)

To place the text "Production Inventory" on the drawing screen.

Production Inventor

1 From the [Draw (D)] menu, select [Text (S)] or click \mathbf{A} to place text on the screen.



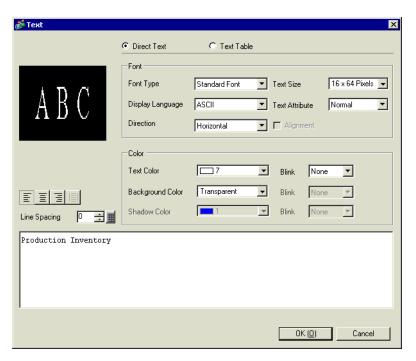
2 In the toolbar, click the pointer icon 1 and select the placed text. When the text border appears, drag to adjust its size and position.



 ${\bf 3}$ Double-click the placed text and the [Text] dialog box appears.

💰 Text			X
	Direct Text	C Text Table	
_	-Font		
	Font Type	Standard Font	▼ Text Size 8 x 16 Pixels ▼
ABC'	Display Language	ASCI	▼ Text Attribute Normal ▼
	Direction	Horizontal	🗾 🗖 Alignment
	Color		
	Text Color	7	▼ Blink None ▼
	Background Color	Transparent	💌 Blink None 💌
Line Spacing	Shadow Color	1	J Blink None
Text			
			OK (<u>Q</u>) Cancel

4 Designate the font and size and input text to place in the Input Text border.



5 Click [OK] and the input text "Production Inventory" will be placed.



9.4 Editing Objects

9.4.1 Introducing Edit Tools

Setting	Description
Cut	Cut the object (Parts, Text, Figure). You can place the cut object on the screen with [Paste].
	Operation Procedure You can cut an object by selecting a desired object and click [Cut] in the [Edit] menu.
Сору	Copies the selected object. Place it on the screen by using the [Paste].
	Operation Procedure You can copy by selecting a desired object and click [Copy] in the [Edit] menu.
Paste	Pastes the copied or cut object onto a screen.
	Operation Procedure You can paste the object you copied or cut by clicking [Paste] in the [Edit] menu.
	 NOTE When pasting from one screen to another, you can paste the object to the same position as the other screen.
Duplicate	Copies multiple pictures at a time. When duplicating parts, you can automatically assign the next consecutive address after the source part's address to the destination part. ^(G) "9.4.5 Duplicate" (page 9-28)
Delete	Deletes an object. Operation Procedure You can delete by selecting the desired object and clicking [Delete (D)] in the [Edit] menu.
Select All	Selects all the objects on the screen. You can also specify the range to drag multiple objects. * "9.4.2 Selection Method" (page 9-27)
Edit Vertex	You can edit, delete or insert each vertex coordinate of a polyline or polygon. ^(G) " ■ Edit Vertex" (page 9-30)
Group	You can group multiple objects together and treat them as one unit. ^(C) "9.4.7 Grouping (Ungrouping)" (page 9-31)
Order 🔁 🔁 🎦	You can change the order of placed overlapping objects. ** "9.4.8 Order" (page 9-31)

Continued

Setting	Description
Place/	You can adjust the positions of multiple objects (Align Right,
Align 🖪 🖬 페 💵	Align Left, Align Center, etc.).
i← →I →I —I	"9.4.9 Aligning" (page 9-32)
冬 🗣	
Rotate/	Rotate
Flip	Rotates the object by 90 degrees.
5 5	"9.4.10 Rotating Right or Left" (page 9-32)
408 <u>20</u> 4	• Flip
▲IÞ ≜	Flips the object horizontally or vertically.
Ч. Ф	⁽²⁷⁾ "9.4.11 Reversing X-Axis (Vertical)/Y-Axis (Horizontal)" (page 9-33)
Others	Sets a grid and guidelines to align a part with another one.
	"9.9 Creating a Screen from a Template" (page 9-57)

9.4.2 Selection Method

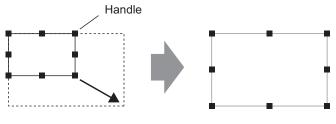
There are two ways to select an object: click the object directly or specify the range to drag multiple surrounding objects.

	• To select one of the overlapping objects, click the object while pressing the
NOTE	[Ctrl] key. Each object becomes in the selective state in turn, and you can
	select the target object.
	• To release a particular object from the selected objects, click the target object

- To release a particular object from the selected objects, click the target object while pressing the [Shift] key.
- To add a particular object to the selected objects, click the target object while pressing the [Shift] key.

9.4.3 Enlarging and Reducing the Size

Select the target object and hover the cursor on the handle. When the cursor turns to \leftrightarrow , you can zoom in or out and drag the object to the appropriate size.



Drag it to a desired size.

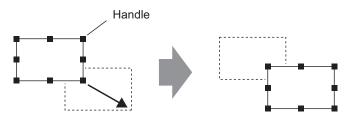
NOTE

• If you select an object and move the four-cornered handles while pressing the [Shift] key, you can enlarge/reduce it with the same horizontal to vertical ratio.

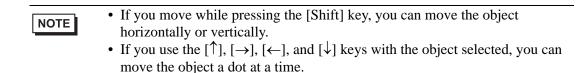
If you use the [↑], [→], [←], and [↓] keys with the cursor on the object handle, you can enlarge/reduce the object by the dot.

9.4.4 Moving Objects

Select the target object and hover the cursor on the object. When the cursor turns to \oplus , you can drag the object to the appropriate location.

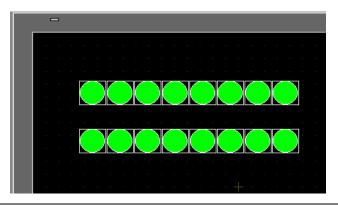


Drag it to a desired position.



9.4.5 Duplicate

Copies multiple pictures at a time. Right-click while selecting the object and click [Duplicate (W)].



• When duplicating parts, you can automatically assign the next consecutive address after the source part's address to the destination part.

Duplicate	Description
	In X Direction
	Set the number of display positions in the X direction from 1 to 99.
🔏 Duplicate 🛛 🗙	Pixels Between Sat the number of data between objects from 1 to 00 data
 Rumber of Resulting In X Direction 5 Pixels Between 0 In Y Direction 3 Pixels Between 0 Direction of Copies ス Duplicate Comment Yes Mouse defines the Enable Assign Addresses Add Increment Each Add 1 Assign Individual A [PLC1]X00000 Add 	 Set the number of dots between objects from 1 to 99 dots. In Y Direction Set the number of display positions in the Y direction from 1 to 99. Pixels Between Set the number of dots between objects from 1 to 99 dots. Direction of Copies Select the display direction from Z, Z, Z, N, M, M or N.
OK (Q) Cancel	 NOTE When you add addresses, sequential addresses are assigned in the specified direction according to the address addition width.
	• Duplicate Comment The copy source comment is reflected in the copy destination.
	 Mouse defines the range Using the defined interval, makes copies that fit into the range. NOTE
	• The minimum settings range depends on the size of the parts of the copy source and the number of copies. You cannot move the cursor to this range.
	 Assign Addresses You can assign sequential addresses from the copy-from addresses according to the [Increment Each Address by]. Increment Each Address by Designates an address interval. When the copy-from addresses are Bit addresses, addresses are added by the Bit. When the copy-from addresses are Word addresses, addresses are added by the Word.
	• Assign Individual Addresses When multiple addresses are set to one object, you can designate whether or not to add each address.

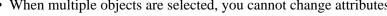
Changing Attributes 9.4.6

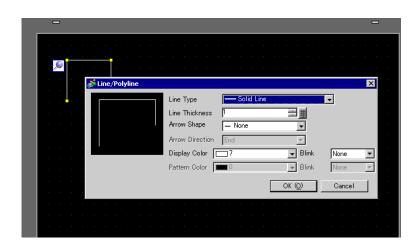
You can change object attributes such as color or address.

To change attributes, double-click the object while selecting it or select [Change Attributes (M)] from the [Edit] menu.

• When multiple objects are selected, you cannot change attributes.

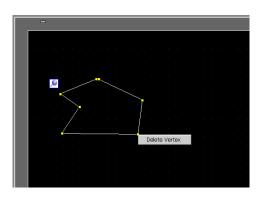






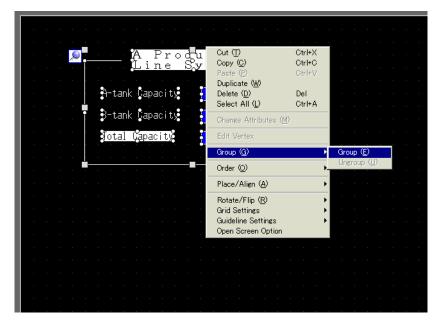
Edit Vertex

You can edit, delete, or insert each vertex coordinate of a polyline or polygon. To edit the object's vertex, click a line in the selected state to change it to a yellow handle. Change the shape of the object by clicking an arbitrary line. To delete the vertex, right-click on the vertex and select [Delete Vertex].



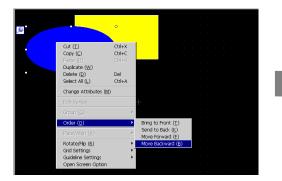
9.4.7 Grouping (Ungrouping)

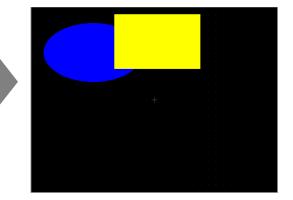
You can group multiple objects and handle them as one object. To do so, select multiple objects, right-click, and click [Group (E)]. To ungroup, click [Ungroup (G)].



9.4.8 Order

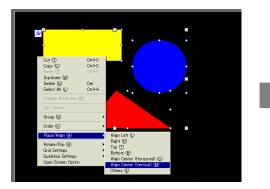
When the placed objects are overlapping, you can change the placement order. Select and right-click the object whose order you want to change, click [Order (O)], and select the object order from [Bring to Front], [Send to Back], [Move Forward], or [Move Backward]. In the following example, the oval is moved backward.

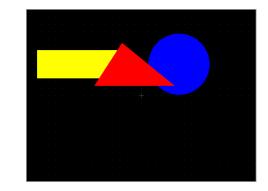




9.4.9 Aligning

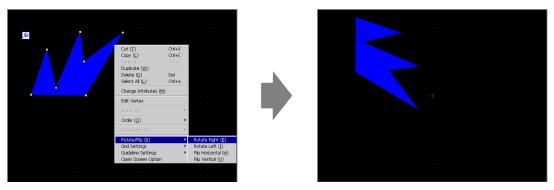
You can align the position of multiple objects. Select the objects that you want to align, rightclick, and then select [Align Left (L)], [Right (R)], [Top (T)], [Bottom (B)], [Align Center (Horizontal) (C)], [Align Center (Vertical) (M)], or [Others (E)] from [Place/Align (A)]. In the following example, the rectangle, polygon, and circle are all aligned to the top.





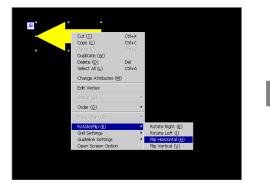
9.4.10 Rotating Right or Left

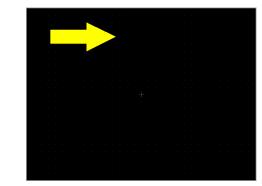
You can rotate the object to the right and left 90 degrees at a time. Right click to select the object you want to rotate, select the [Rotate Right (E)], [Rotate Left (I)] in [Rotate/Flip (R)]. The following example describes placement of a right-rotated polygon.



9.4.11 Reversing X-Axis (Vertical)/Y-Axis (Horizontal)

You can flip the object on the X-Axis (vertical) or the Y-Axis (horizontal) of the center line of the object. Right-click to select the desired object and select [Flip Horizontal (H)] or [Flip Vertical (V)] from the [Rotate/Flip (R)]. The following example shows the position of a polygon flipped horizontally. Please note that only the display position of the screen, marks, parts, and text are reflected.





9.4.12 Changing Coordinates

You can change the position and size of an object by designating a coordinate in the [Properties (P)]. The reference of the coordinate is the top left of an object.

Attribute Name	Value
Coordinate	value
Top Left X-Coordinat	140
Top Left Y-Coordinat	140
Width	140
Height	100
🔻 Polygon	
Border	On
🔻 Border	
Line Type	Solid Line
Line Thickness	1
Display Color	7
Blink	None
Fill	Off
Decoration	

NOTE

• If the [Properties] tab is not displayed in either the work space or the screen drawing area, from the [View (V)] menu, point to [Work Space (W)] and select [Properties (P)].

9.5 Changing Colors, Line Types and Patterns

9.5.1 Setting Colors

■ List of Available Colors

Model	Display Device	Display Color	Designated Number of Colors in Drawing		
AGP-3200T	TFT Color LCD	256 Colors, None Blink	256 Colors		
		64 Colors, 3-Speed Blink	64 Colors		
AGP-3200A	Monochrome LCD	8 Levels, 1-Speed Blink	Monochrome 8 Levels		
AGP-3302B	Blue-mode Monochrome LCD	16 Levels, 3-Speed Blink	16 Levels		
AGP-3301L	Monochrome LCD	Monochrome, 16 Levels, 3- Speed Blink	Monochrome 16 Levels		
AGP-3301S	STN Color LCD	4096 Colors, 3-Speed Blink	256 Colors		
AGP-3300L	Monochrome LCD	Monochrome, 16 Levels, 3- Speed Blink	Monochrome 16 Levels		
AGP-3300S	STN Color LCD	4096 Colors, 3-Speed Blink	256 Colors		
AGP-3300T	TFT Color LCD	65536 Colors, No Blink 16384 Colors, 3-Speed Blink	256 Colors		
AGP-3400S	STN Color LCD	4096 Colors, 3-Speed Blink	256 Colors		
AGP-3400T	TFT Color LCD	65,536 Colors, No Blink	256 Colors		
AGP-3500T		16384 Colors, 3-Speed Blink			
AGP-3500L	Monochrome LCD	Monochrome, 16 Levels, 3- Speed Blink	Monochrome 16 Levels		
AGP-3500S	STN Color LCD	4096 Colors, 3-Speed Blink	256 Colors		
AGP-3510T	TFT Color LCD	65,536 Colors, No Blink	256 Colors		
AGP-3560T		16,384 Colors, 3-Speed			
AGP-3600T		Blink			
AGP-3450T					
AGP-3550T					
AGP-3650T					
AGP-3750T	1				
LT-3201A	Monochrome LCD (Umber)	8 Levels, No Blink	Monochrome 8 Levels		
PS3651A	TFT Color LCD	65,536 Colors, No Blink	256 Colors		
PS3650A	1	16,384 Colors, 3-Speed			
PS3700A	1	Blink			
PS2000B	1				

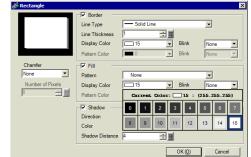
- **NOTE** Objects with the blink setting option blink on the display and have three selectable blink speed rates.
 - "9.5.2 Setting Blinks" (page 9-37)
 - On monochrome LCD models and STN Color LCD models, when you set a tiling pattern in the background settings to use the blink setting, some drawing components that do not have the blink setting may blink. Please confirm the display in advance.

Defining Colors

Set the object colors. Depending on part type, setting items such as colors of a border, fill, shadow or label, differ depending on the part type.

For a 256-color supported model

💰 Rectangle	X	1	Re
	Image: Solid Line Image: Solid Line Line Truichness Image: Solid Line Display Color Image: Solid Line Pattern Color Image: Solid Line Jose Solid Line Image: Solid Line Jing Solid Line		
Chamfer None	Image: Fill Pattern Display: Color 15 W Blink None V Shadow		
	Direction Eottom Right T Color I T Shadow Distance 4 III OK @ Cancel		



NOTE	 For 256-color supported models, you can move to the next palette with the scroll button at the bottom of the color palette. You can only select [Transparent] for the [Pattern Color] for a Switch Lamp that does not use the [Lamp Feature] or for a Key that has a [Pattern] set in the settings dialog box. When you change from a model that supports more than 16 colors to a model that supports only 16 colors, any colors outside the 16 color range are converted to one of the 16 colors.
IMPORTANT	 For a monochrome 16-level model, there are some cases where color distinction is difficult or where flicker is caused. Use the color designation above after confirming the colors.

For a monochrome 16-level supported model

♦ Color Palette

Cu	irrent	Colo	r: 🗀]7 :)	255.2	55.25	5)
0	1	2	ο	4	5	ω	7
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55
56	57	58	59	60	61	62	63
« »							

72 80	73 81	74 82	75 83	76 84	77 85	78 86	79 87
88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103
104	105	106	107	108	109	110	111
112	113	114	115	<mark>116</mark>	117	118	119
120	121	122	123	124	125	126	127
«				»			

							_
128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151
152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167
168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183
184	185	186	187	188	189	190	191
«				»			

Current Color: 7 : (255.255.255)							
192	193	194	195	196	197	198	199
200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215
216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231
232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247
248	249	250	251	252	253	254	255
*			»				

Current Color: 7 : (255.255.255)								
E1	E2	£	E4	E5	E6	E7	E8	
E9	E10	E11	E12					
«					X	>		

9.5.2 Setting Blinks

NOTE

Blink makes the object blink on the display and has three selectable blink speed rates (Slow, Medium, Fast).

[Fast] is twice the speed of [Medium] and [Slow] is half the speed of [Medium]. If you select [None], the object will not blink.

• For dark color blink, refer to "5.14.6 [System Settings] Setting Guide	I
[Display Unit] Settings Guide ♦ Display" (page 5-110)	

💰 Rectangle				×
	Border			
	Line Type	Solid Line		-
	Line Thickness	s 1 📑	2	
	Display Color	_ 7	Blink	None 💌
	Pattern Color	0	Blink	None Medium
Chamfer	Fill			Fast
None	Pattern	None		-

9.5.3 Setting Line Types

You can select the line type from five types: [Solid Line], [Dotted Line], [Dash Line], [Chain Line], or [Two-Dot Chain Line].

💣 Rectangle		×
Chamfer None	Pattern Color Blink	one V one V
	Shadow Direction Bottom Right Color Shadow Distance	
	OK (Q)	Cancel

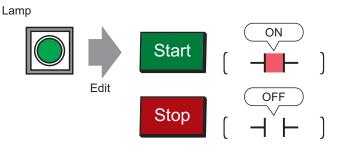
9.5.4 Setting Patterns

Select a pattern from the following nine types.

💰 Rectangle		×
	🔽 Border	
	Line Type -Solid Line 👤	
	Line Thickness 1	
	Display Color 🔲 15 💽 Blink Non	e 🔻
	Pattern Color 🔲 0 🚽 Blink Non	e 🔻
Chamfer	- 🔽 Fill	
None	Pattern 📕 Check Pattern (Large) 🗨	
Number of Pixels	Display Color 🛛 🚽 Blink Nor	ne 💌
B 😑 🕮	Pattern Color Blink Nor	ne 🔻
·	I Shadow	

9.6 Editing a Part

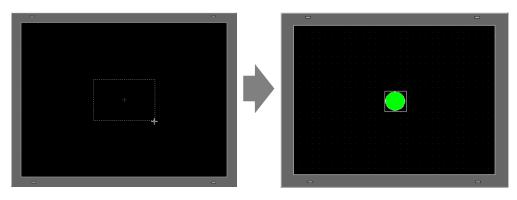
9.6.1 Editing Parts



- 1 From the [Parts (P)] menu, point to [Switch Lamp (C)] and select [Lamp (L)] or click \mathbb{P} .
- 2 Move the pointer 1 to the drawing screen and the pointer changes to a cross-hair cursor

												-
												- I
												·
												.
			- ()							.
			`	\sim								
												.
												.
												.
1		1				1			1		1	

3 Drag to the location where you want to place the switch. The switch is placed in the area where it is dragged.



NOTE

• You can also drag and drop a part from the Parts Toolbox . From the [View (V)] menu, point to [Parts Toolbox (T)], [Work Space(W)] and select [Parts Toolbox (T)]. The Parts Toolbox appears. You can view different parts shapes by setting the [Parts Palette] and [Type]. 4 Double-click the placed Lamp and the following dialog box appears.Click the keypad icon

Switch/Lamp	×
Parts ID SL_0000	Switch Feature Lamp Feature Color Label
Comment	✓ Lamp Feature
OFF	Extended Bit Address [PLC1]>00000 Copy from Switch Copy to Switch
Select Shape	
Help (<u>H</u>)	OK (O) Cancel

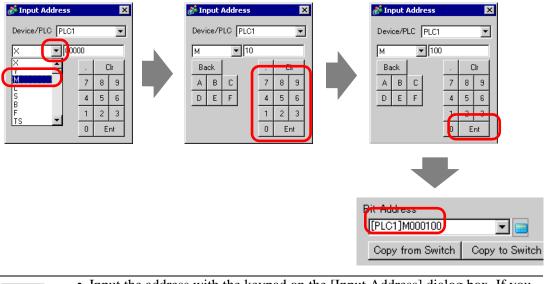
5 Click the keypad icon 📻 and enter the bit address in the [Input Address] dialog box.

Bit Address	
[PLC1]X00000	
Copy from Lamp	Copy to Lamp

ð I	nput	Addı	ess			2	×			
De	Device/PLC PLC1									
X	× • 0000									
E	lack				0	lr				
A	В	С		7	8	9				
D	E	F		4	5	6				
				1	2	3				
			0	E	nt					

NOTE

6 Click the 🔽 icon and select the [Device/PLC] and [Device]. Input an address from the keypad.(For example, M100)



- Input the address with the keypad on the [Input Address] dialog box. If you input it directly with the PC keyboard, it may not be recognized as an address.
- 7 Click [Select Shape] and the [Select State Window] appears.

💰 Switch/Lamp	×
Parts ID SL_0000	Switch Feature Lamp Feature Color Label
SL_0000 📑 Comment	☑ Lamp Feature
	Bit Address
	[PLC1]M0100
OFF	Copy from Switch Copy to Switch
Select Shape	
Help (H)	OK (Q) Cancel

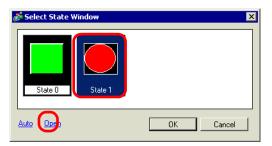
8 Select [State 0] and click [Open].

💰 Select State V	Vindow			×
State 0	State 1			
Auto Ope		OK	Cance	

9 Select [Standard Parts] from the Parts Palette. Next select the [Part Number] SW_3D202_ OFF picture.

💰 Shape Brow	wser			×
Parts Palette	Standard	Parts 💌	Browse	
State	State 0	•		
		-		
				•
Parts Number	SW_3D2	02_OFF		<u>-</u>
<u>New Palette</u>	Create Del	ete	OK Car	icel

- Use the Parts Palette drop-down list to change the images displayed. There are parts with 65536, 256 or 64 colors. Please select the parts palette that matches the colors supported by your model.
- 10 Click [OK] and the display returns to the [Select State Window]. Select [State 1] and click [Open].



11 Select [Standard Parts] from the [Parts Palette]. Next select the [Part Number] SW_3D202_ON picture and click [OK].

💰 Shape Brow	vser				×
Parts Palete	Standard	l Parts	В	rowse	
State	State 1		•		
		=			
Parts Number	SW_3D2	202_ON			•
<u>New Palette</u>	Create De	lete	C	ок	Cancel

12 The pictures at [State 0] (OFF) and at [State 1] (ON) are displayed in the [Select State Window]. Click [OK].

💰 Select State V	Vindow	×
State 0	State 1	
<u>Auto Open</u>		OK Cancel

• Click [Auto] after defining the picture in [State0] to automatically match the pictures for all the other states.

13 Click the [Color] tab. Confirm that [Select State] is OFF and set the color of the switch for the OFF state. For the [Display Color], click ✓ and select a color from the color palette.

💰 Switch/Lamp												×
Parts ID SL_0000 🔆	Switch Feature L	amp Fe	eature	Color	Labe	el]						
Comment	Select State	OFF			•							
	Display Color	2		•	Blink	Γ	None	-]	_		
	Pattern		Curre	nt Co	lor:	2:	(0.2	55.0)				
		0	1	2	3	4	5	6	7			
OFF	Border Color	8	9	10	11	12	13	14	15			
Select Shape		16	17	18	19	20	21	22	23			
		24	25	26	27	28	29	30	31			
		32	33	34	35	36	37	38	39			
		40	41	42	43	44	45	46	47			
		48	49	50	51	52	53	54	55			
		56	57	58	59	60	61	62	63			
Help (<u>H</u>)			<	X			X	>		ок (<u>о</u>)	Cancel	

NOTE

• You cannot edit the color for the Switch/Lamp menu image parts.

14 Select ON in [Select State] and set the color of the switch for the ON state.

	Select State OFF	
	OFF Display Color	
💰 Switch/Lamp		×
Parts ID SL_0001	Switch Feature Lamp Feature Color Label	
Comment	Select State ON	
	Display Color 📕 Blink None 💌	
	Pattern	
_	Border Color 7 V Blink None V	
ON		
Select Shape		
Help (<u>H</u>)	OK (Q) Cancel	

NOTE

• You cannot edit the color for the Switch/Lamp menu image parts.

15 Select the [Label] tab. Select [OFF] in [Select State] and input the text to display on the switch in the OFF state.

💰 Switch/Lamp	x
Parts ID SL 0001	Switch Feature Lamp Featur Color bel © Direct Text © Text Table Select State OFF Font Font Type Standard Font V Size 8 x 16 Pixels V Display Language Japanese V Text Attribute Normal V
OFF Select Shape	Start Text Color Blink Text Color Blink To To None Shadow Color Blink Bink Background Color Blink U
	Copy to All Labels Clear All Labels Transpare None ✓ Fixed Position Tracking Line Spacing
Help (<u>H</u>)	OK (Q) Cancel

16 Select [ON] in [Select State] and input the text to display on the switch in the ON state. (For example, STOP)

	Select State OFF		
	-Font OFF		
	ON ON	1	
💰 Switch/Lamp			×
Parts ID	Switch Feature Lamp Feature Color Label		
SL_0000 📑	Direct Text O Text Table		1
Comment			
	Select State ON 🔽		
	Font		
	Font Type Standard Font Size	8 x 16 Pixels	
	Display Language ASCII Text Attribute	Normal	
ON	Stop	Text Color	Blink
Select Shape		7 -	None 💌
		Shadow Color	Blink
			None 💌
		Background Color	Blink None 💌
	Copy to All Labels Clear All Labels		
	Fixed Position Tracking		
	Line Spacing 🛛 🔁 🧮 🗐 🗐 🗐		
Help (<u>H</u>)		OK (<u>D</u>)	Cancel

17 Click [OK] when all the settings are complete.

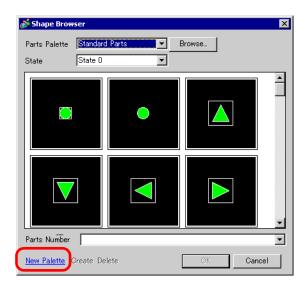
9.6.2 Registering New Part Image

Use the following procedure to register new images for parts.

1 Double-click the part you want to register a new image for, and the following dialog box appears. Click [Select Shape].

💰 Switch/Lamp						×
Parts ID SL_0000	Switch Feature Switch Common	n Lamp Feature	Color L	abel		
Comment	I▼ Switch Feature Multi-function List Bit Switch	Bit Switch	Word Switch	Screen Change	Special Switch	Selector Switch
Normal Select Shape No Shape		Bit Address [[PLC1]X0000 Copy from L Bit Action Bit Set	4	y to Lamp		<u>>>Extended</u>
	Add Delete Copy and Add					
Help (<u>H</u>)				(DK (<u>0</u>)	Cancel

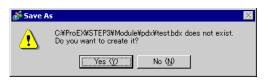
2 The [Shape Browser] dialog box appears. Click [New Palette].



3 The [Save As] dialog box appears. Define the [Location(I)] and [File Name (N)] of the new parts palette you and click [Save (S)].

Save As				? ×
Save jn:	🔁 pdx		. • • • •	.
History Desktop My Documents	pdb LArrowCircle.pdx LArrowCircle.pdx LArrowSquare.pdx LBlower.pdx LCircle.pdx LCircle.pdx LCircle.pdx LEquipment.pdx LGold.pdx LGold.pdx LGold.pdx LGold.pdx LOperationMark1.pdx	L OperationMark2.pdx L OperationMark4.pdx L OperationMark4.pdx L OperationMark4.pdx L Pipe.pdx L Pectangle.pdx L RectangleThick1.pdx L RectangleThick2.pdx L RectangleThick3.pdx L RectangleThin1.pdx L RectangleThin2.pdx	LectangleThin3.pdx LSelector.pdx LSign.pdx LSignSmall.pdx LSilver.pdx LSilver.pdx LTank.pdx LTank.pdx LToggle2State1.pdx LToggle2State2.pdx LToggle3State1.pdx LToggle3State1.pdx	L Valve.pdx Image256_EXT Image10e256.pt Imag_blue64.pd; Imag_grayn.pdx Imag_grayn
My Computer				Save
My Network P	Save as type: Image	Parts File		Cancel
	Comment			1

4 When the following message appears, click [Yes (Y)].



5 The newly registered [Shape Browser] dialog box appears. Click [Create].

<i> S</i> hape Brow	iser	×
Parts Palette	test.bdx	Browse
State	State 0	
		_
Parts Number		•
New Palette	Delete	OK Cancel

6 The [Register Parts] dialog box appears. Select [State 0], and click [Select].

Register Part	s(test.bdx)		×
State 0	State 1	State 2	State 3
State 4	State 5	State 6	State 7
State 8	State 9	State 10	State 11
State 12	State 13	State 14	State 15
Title Color Set the numb [4096 Colors	er of colors at I s	mage -> Parts o -] ☞ Compress	
		Register	Cancel

7 When the [Open File] dialog box appears, navigate to the image location [Look In], select the file [File Name] and [Look in] and [File name] and click [Open].

Open File			? ×
Look in:	🗟 My Pictures	- 🖬 🍅 🖬 -	
History Desktop My Documents My Computer My Network P	right.bmp		
	File <u>n</u> ame:	left.bmp	<u>O</u> pen
	Files of <u>type</u> :	All Image Files	Cancel

8 The image will be registered in [State 0] of the [Register Parts] dialog box.

💰 Register Part	s(adsf.bdx)		×
State 0	State 1	State 2	State 3
State 4	State 5	State 6	State 7
State 8	State 9	State 10	State 11
State 12	State 13	State 14	State 15
Title Color Set the numbe 4096 Colors	er of colors at Im	age -> Parts con P IV Compress	Select Delete
		Register	Cancel

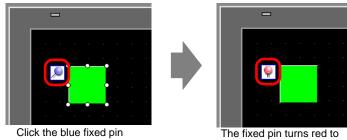
9 If necessary, set the part number and number of colors for the image to register in [Title] and [Color Settings], and click [Register], to complete the process.

NOTE	• To select an image for the part, open the Parts dialog box and click [Select Shape].
	The [Shape Browser] appears. Select a palette name in [Parts Palette]. Select the appropriate image and click [OK].
	• If you click "Create" while a previously registered part is selected, you can edit that part image. To create a new image, click the "Create" button while no previously registered part is selected.
	 Image parts can be registered with a maximum size of 160 x 160 dots. Parts which use registered images can cause large project file sizes. It is
	recommended you set [Compress] in the [Color].You can register up to 200 image parts in a single parts palette file.
	• Image parts that have been enlarged or reduced may display differently on the GP and in Pro-EX.
	• When the registered image size is different depending on the state, the larger image will remain the same, and the smaller image will be enlarged.
	You cannot register or delete a previously-prepared PDX file.The types of image file that can be registered to a part are BMP, JPEG, DPD,
	and PNG.

9.6.3 Fixing/Unfixing Objects

♦ Fixing Objects

Place drawings and parts, and a blue fixed $pin \swarrow$ appears at the top-left corner objects on the screen. Click add space on the pin and it turn red the object cannot be selected or edited. When you put the cursor over the object, a "lock" mark appears to the right, indicating that the placement position is fixed.)



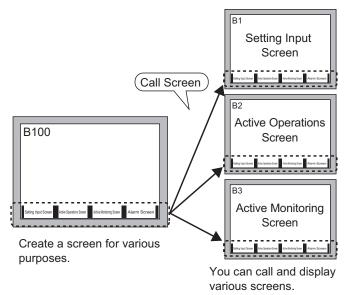
The fixed pin turns red to indicate the part is locked

Releasing Fixed Pins

- Releasing individual objects
 Double-click a drawing or part, click
 and the pin turns blue.
- Releasing all fixed pins on the screen
 From the [Edit (E)] menu, select [Release All Fixed Pins (K)].

9.7 Using a Screen for Various Purposes

9.7.1 Setup Procedure



1 From the [Screen (S)] menu, select [New Screen (N)]. The following dialog box appears. Click [New] to create a new base screen (Example: Base Screen 2)

💰 New Screen	E	×
Screens of Type	Base	
Screen	2 🔜 🏢	
Title	Untitled	
Use Template		
Select Templa Recently Use		
	New Cancel	

2 From the [Draw (D)] menu, select [Call Screen (O)] or click 🔢.

Draw (<u>D</u>)		
•	Select Range (<u>E</u>)	
A	Text (<u>S</u>)	
•	Dot (D)	
/	Line (<u>L</u>)	
~*	Polyline (U)	
	Rectangle (<u>R</u>)	
\Diamond	Polygon (<u>P</u>)	
0	Circle/Oval (<u>C</u>)	
٢	Arc/Pie (<u>A</u>)	
F	Scale (<u>M</u>)	
	Image Placement (<u>I</u>)	
R	Call Screen (<u>O</u>)	
⊞	Table (<u>T</u>)	

3 When you drag on the image screen, a dashed line is drawn. [Call Screen] dialog box is displayed.

💰 Call Screen	X
Call Target	Number
Base Screens 💌	
	OK (Q) Cancel

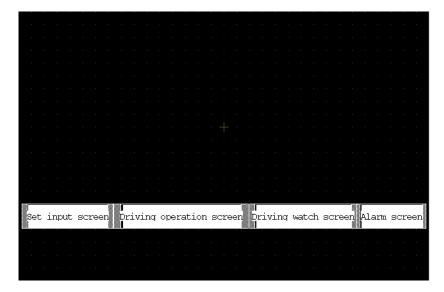
4 Select the target image from [Call Target].

Base Screens	Previously created base screens are displayed.
Image	The image data registered in "Image Registration" is displayed.
Image (CF)	The CF-card image data registered in "Image Registration" is displayed.
Mark Registration	Displays registered marks.
Keypad Registration	The keypads registered in "Keypad Registration" are displayed.

NOTE

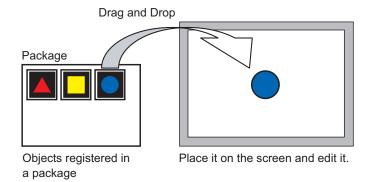
• When you call a [Base Screen], call and place it in the center of the screen.

5 Select an image and click [OK] to display the designated image.



9.8 Editing a Picture on Another Screen

9.8.1 Placing Pictures Registered in the Package



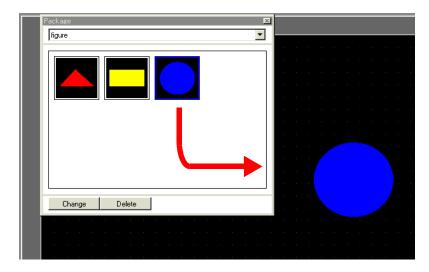
1 Display the registered picture list. From the [View (V)] menu, select [Package (P)].



2 The [Package List] dialog box appears. Select the picture to place and click [Open].

🖇 Package List	
Name	Creation Date
DEC Keyboard	27/05/2005
HEX Keyboard	27/05/2005
Text(ABC/ENG) Keyboard	27/05/2005
Text(QWE/ENG) Keyboard	27/05/2005
Text(ABC/JPN) Keyboard	27/05/2005
Text(QWE/JPN) Keyboard	27/05/2005
Text(KANA1/JPN) Keyboard	27/05/2005
Text(KANA2/JPN) Keyboard	27/05/2005
Small DEC Keyboard	27/05/2005
Small HEX Keyboard	27/05/2005
Small Text(ABC/ENG) Keyboard	27/05/2005
Small Text(ABC/JPN) Keyboard	27/05/2005
New Open Delete	Rename Close

3 The [Package] dialog box is appears. Select a picture and drag it to the drawing screen to place it.



9.8.2 Registering Pictures in the Package

You can register a created object. You can also register a combination of multiple objects.

- 1 From the [View (V)] menu, select [Package (P)], or click 🐺
- 2 The [Package List] dialog box appears. Select a package name and click [Open].

Name	Creation Date
DEC Keyboard	27/05/2005
HEX Keyboard	27/05/2005
Text(ABC/ENG) Keyboard	27/05/2005
Text(QWE/ENG) Keyboard	27/05/2005
Text(ABC/JPN) Keyboard	27/05/2005
Text(QWE/JPN) Keyboard	27/05/2005
Text(KANA1/JPN) Keyboard	27/05/2005
Text(KANA2/JPN) Keyboard	27/05/2005
Small DEC Keyboard	27/05/2005
Small HEX Keyboard	27/05/2005
Small Text(ABC/ENG) Keyboard	27/05/2005
Small Text(ABC/JPN) Keyboard	27/05/2005
keyboard	23/10/2006
figure	23/10/2006
New Open Delete	Rename Close

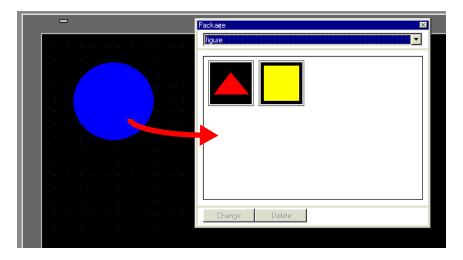


• To register pictures in a new package, click [OK].

3 The [Package] dialog box, which displays a registered package list, appears.

Package 🔀	I
figure 💌	l
Change Delete	1

4 Select the figure to be registered and drag to the [Package] dialog box.



5 The pictures have been registered in a package.

Package 💌
Change Delete

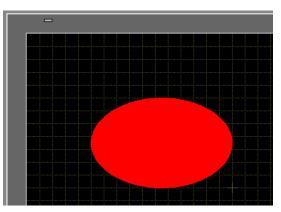
9.9 Creating a Screen from a Template

9.9.1 Setting up Grids

Introduction

You can display a grid with dots or lines on the drawing screen for reference when placing multiple objects.

The position of each object is determined according to the intersecting points of the grid, to make it easier to adjust the object position.

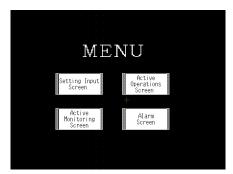


Setup Procedure

NOTE

Please refer to the settings guide for details.
 "9.12.2 Preferences [Edit Screen] Setting Guide" (page 9-79)

Display a lined grid on the drawing screen and set the environment for placing an object along a line.



- 1 From the [View (V)] menu, select [Preferences (O)].
- 2 The [Preferences] dialog box appears. Select [Screen Edit Style].

Preferences	K
General Screen Edit Style Script	Settings for Screen Edit Style
	Action
Toolbar Logic Edit Style	Show Guide on Move or Resize
Monitor Step Error Check	🔽 Left Edge 🔲 Horizontal Center 📃 Right Edge
LITOI CHECK	🔽 Upper Edge 🦳 Vertical Center 📄 Bottom Edge
	Snap to Grid
	Grid Size (pixels) Width 20 🚍 Height 20 🚍
	Display
	✓ Show Fixed Pin of Parts
	I Show Ruler I Show Grid
	Order Back V Shape Grid V
	Show Parts ID
	Show Address
	Show Touch Area
	Show Window Parts Screen
	OK (Q) Cancel

3 Set the Action to align objects with intersecting points. Put a check mark next to the [Snap to Grid] box. Set the grid spacing in [Grid Size] (by the pixel). (For example, [Width] 20, [Height] 20)

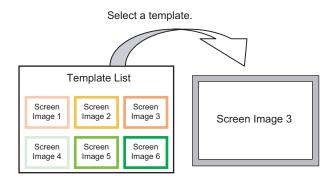
Preferences ×
General Settings for Screen Edit Style Screen Edit Style Action Soriet Show Guide on Move or Resize Monitor Step Error Check Error Check ✓ Left Edge Horizontal Center Right Edge Shaw Fueler ✓ Vertical Center Bottom Edge ✓ Vertical Center Bottom Edge ✓ Shaw to Grid Grid Size (pixels) Width Display ✓ Show Ruler ✓ Show Parts ID Show Address Show Address Show Touch Area
Show Window Parts Screen

4 In the Display group box, select the [Show Grid] check box. Select [Order] and [Shape] options as necessary. Click [OK] to close the dialog box.

💰 Preferences		×
Freferences General Screen Edit Style Script Toolbar Logic Edit Style Monitor Step Error Check	Settings for Screen Edit Style Action Show Quide on Move or Resize Upper Edge Upper Edge Vertical Center Bottom Edge Shap to Grid Grid Size (pixels) Width O Height O Display Show Fixed Pin of Parts Show Ruler Show Ruler Show Parts ID Show Address Show Touch Area Show Window Parts Screen	
	OK (Q) Cancel	

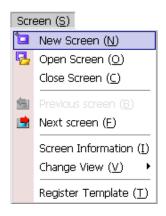
9.9.2 Selecting a Screen from Template

You can reduce the number of drawing processes by editing in a screen registered in the templates.



Placing a Picture Registered in Templates

1 From the [Screen (S)] menu, select [New Screen (N)].



2 The following [New Screen] dialog box appears. Click [Select Template from List].

💰 New Screen		×
Screens of Type	Base	
Screen	2 🗄 🏢	
Title	Untitled	
Use Template		
Select Templa		-
Recently Use	<u>d Template</u>	
	New Cancel	

3 The registered templates display. Select a screen you want to use and click [OK].

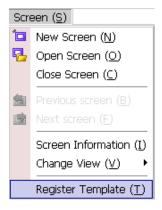
ð	Select Template		×
	Screen Number:2	Untitled	
	2014 2000 State		
	S Delete 🗹 F	lename	
			Cancel

4 The template is placed.

_																			_		
																				1	
																				1	
																				1	
																				÷.,	
																				1	
	Se	etti So	ng : cree	[npu n	It	A Ope Şi	cti rat cre	ve i ons en	ŝ	Μ	Ac loni Sc	tiv tor ree	/e ring en		A Sc	lar :ree	m en		-		
	-																		-		

Registering a Screen as a Template

You can register created screens as templates and use them again. To make a screen into a template, from the [Screen (S)] menu, select [Register Template (T)].



9.10 Pasting an Image

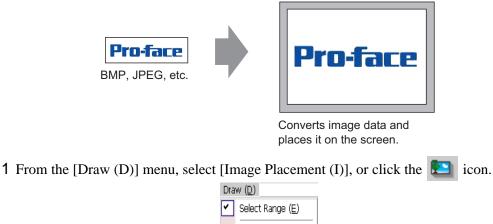
9.10.1 Target Image

Image data that can be displayed on the GP screen is as follows.

Image	Pasting Method	Description
BMP, JPEG, DPD, PNG File	Directly placing an image on the screen	 Directly pastes BMP, JPEG, DPD, or PNG on the screen. NOTE In using the same image on the multiple screens, you can hold down the screen capacity by registering the original image in "Image". You can call the base screen with an image already placed onto another base screen. * "9.10.2 Pasting BMP/JPEG Procedure" (page 9-64)
	Registering an image in "Image (Display)" and using Call Screen	 Registers a BMP, JPEG, DPD, or PNG file as the "Image" and displays it on the base screen by using Call Screen. NOTE You can improve screen capacity by registering an image file in "Image" and using the same image on the multiple screens. * "9.7 Using a Screen for Various Purposes" (page 9-50)
	Registering an image in "Image (CF)" and using Call Screen	Calls and displays the image data stored in the CF Card on the base screen. ** "9.7 Using a Screen for Various Purposes" (page 9-50)
	Calling the base screen's image	Calls and displays the base screen's already created image data on the base screen. ** "9.7 Using a Screen for Various Purposes" (page 9-50)
Mark Registration	Registered "Mark registration" images.	Calls and displays the dotted image data registered in "Mark" on the base screen. "9.11 Drawing a Detailed Picture" (page 9-66)
Keypad Registration	Registered "Keypad Registration" images.	 Calls and displays the registered keypad on the base screen. "9.7 Using a Screen for Various Purposes" (page 9-50)] NOTE You can call one keypad from a [Call Screen] part on a Base Screen.

9.10.2 Pasting BMP/JPEG Procedure

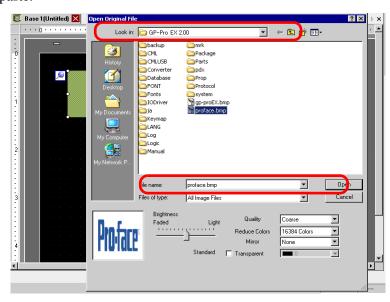
To directly paste the image on the screen:



A Text (S)
 Dot (D)
 Line (L)
 Polyline (U)
 Rectangle (R)
 Polygon (P)
 Circle/Oval (C)

Arc/Pie (A)
 Scale (M)
 Image Placement (I)
 Call Screen (Q)
 Table (T)

2 Move the cursor to the drawing area and the cursor converts to cross hairs. Click the screen and the [Open Original File] dialog box appears. Set the [Look in] and [File name] for the image to paste.



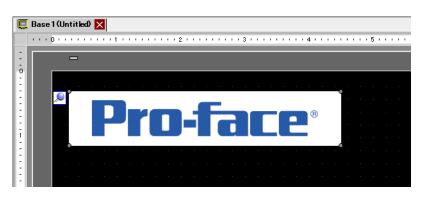
3 Adjust the image quality and number of colors, and click [Open].

My Network P	File <u>n</u> ame: Files of <u>type</u> :	proface.bmp All Image Files		•	<u>O</u> pen Cancel
Proface	Brightness Faded	Light	Quality Reduce Colors Mirror Transparent	Coarse 16384 Colors 8 Colors 16 Colors 64 Colors 256 Colors 4096 Colors 16384 Colors 23789 Colors 23789 Colors	Y

4 The following [Image] dialog box appears. Set the size and blink rate for the image to paste.

💰 Image	×
	Original File
Oro faco	C:\Program Files\\proface.bmp Browse
FIUIALE	Number of Colors 16,777,2 Size 425 x 85
INDE Electronics	Fix Aspect Ratio
	✓ Original Size
	Blink Compress
	OK (Q) Cancel

- When [Original Size] is selected, an image is placed with the same size as the original image. You cannot change the image size after placing it.
 - When [Fix Aspect Ratio] is selected, an image is placed with the original image horizontal to vertical ratio fixed.
- 5 Click [OK] and the designated image will be placed.

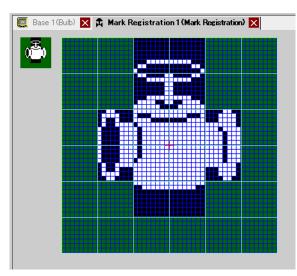


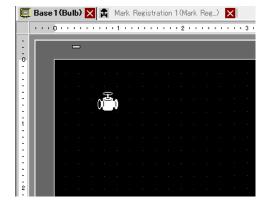
9.11 Drawing a Detailed Picture

9.11.1 Drawing a Valve

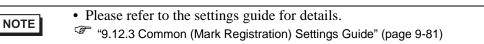
Introduction

You can call and display image data created in a Mark to the base screen. In the [Mark], you can draw your own symbols or pictures with dots.

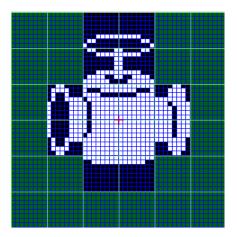




Setup Procedure



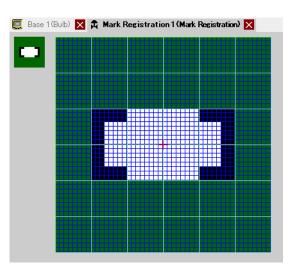
To draw a valve with dots:



1 From the [Common Settings (R)] menu, click [Mark Registration (M)]. Select [New] and enter the [Number] and [Comment] and click [Create] (Example: [Number]1, [Comment] Mark Registration)

💰 New Mark,	/Open 🛛	1
New	C Open	
Number		
Comment	Mark Registration	
	New Cancel	//

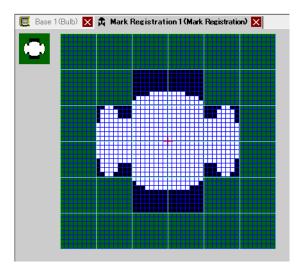
2 Create an outline of the valve body with a rectangle. From the [Draw (D)] menu, select [Filled Rectangle (T)]. Place after dragging to adjust the size and location of the rectangle.



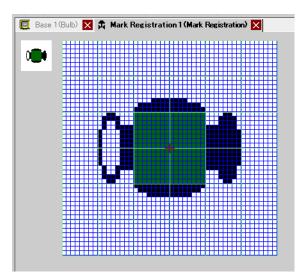
NOTE

- From the [Edit] menu, click [Undo (U)] to undo the command.

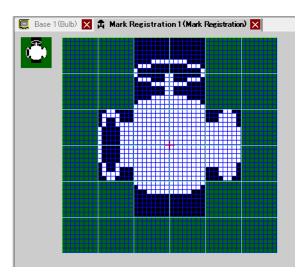
3 Create a valve opening with an ellipse. From the [Draw] menu, select [Filled Circle/Ellipse], Place the object after adjusting the size and location of the ellipse.



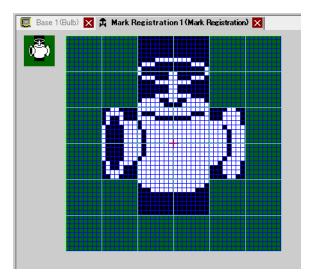
4 Create an outline of the valve opening using [Color Inversion]. From the [Edit] menu, select [Color Inversion (Y)] to mirror the dot on the campus. In this state, from the [Draw] menu, select [Filled Circle/Ellipse] to place after adjusting the size and location of the ellipse. After placement, click [Color Inversion (Y)] again to return to the campus state.

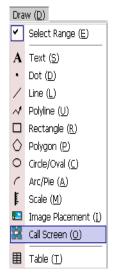


5 Create the handle part with an oval and rectangle. From the [Draw] menu, select [Circle/Oval (I)] or [Filled Rectangle (T)]. Place the object after adjusting the size and location of the oval and rectangle.



6 Fine tune each part using dots. From the [Draw (D)] menu, select [Dot (D)]. To draw, you can click to turn ON (white) and right-click to turn OFF (black).





7 Click the [Base 1] tab and open a base screen to place the mark. From the [Draw (D)] menu, select [Call Screen (O)].

NOTE

• From the [Screen (S)] menu, select [New Screen (N)] to create a new base screen.

8 Click the drawing screen and the dotted border is placed and the [Call Screen] dialog box appears.

💰 Call Screen			×
Call Target	Number		
Base Screens 📃			
		OK (Q)	Cancel

9 Select [Mark Registration] from [Call Target] and select the mark number registered in [Number]. (For example, 1)

	Call Screen Call Target Mark Registration
	1: Mark Registr
	Size Display Color Background Color
	OK (D) Cancel
NOTE	• You can designate the display color of the created mark.

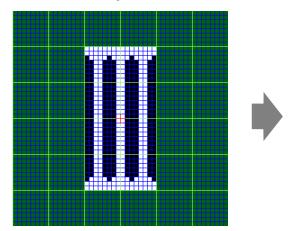
10 Select an image and click [OK] to display the designated image.

📮 Ba	ise 1 (B	ulb)	Х	Å	Ma	ırk F	Regi	stra	tion	1 (M	ark	Reg)	Х			
	• • • •		• •	• •	11	• •	• •	• •	• •	• 2	• •	• •	• •		3		•
Ě																	
				j N	2												
				νı													
2																	

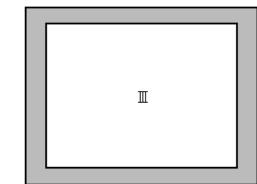
9.11.2 Displaying a Character External to the Character Code

Draw an external character with dots in Mark. You can display registered external characters on the screen.

You can register external characters only when selecting the ASCII standard font (bitmap font) and the font size of 8 x 16 dots or larger.



Mark Registration



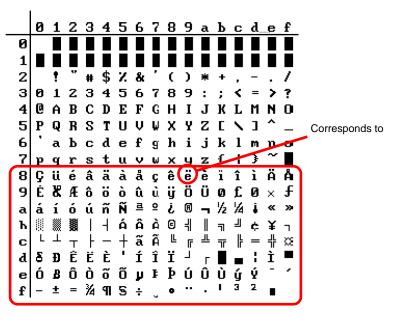
GP

Setup Procedure

You can display the created character on the screen by replacing a character in the frame in the character code table with it. The following is the procedure for replacing the character ë (89h) in the character code table (Code Page 850) with the character "III", which was created with dots, and displaying the character "III" on the GP screen.

Character Code List

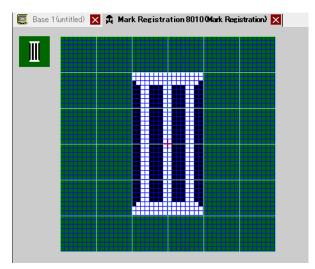
The following is the character code table of Code Page 850, the character code used on the GP.



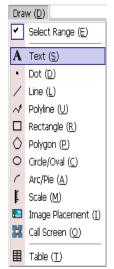
- 1 From the [Common Settings (R)] menu, select [Mark Registration (M)]. Select [OK] and enter the mark number "8010" in the [Number] which corresponds to the character \ddot{e} (89h) in the character code table. Click [New].
 - "■ Input Code Table" (page 9-76)

💰 New Mark	/Open		×
New	C Open		
Number	8010 \Xi 🇮		
Comment	Mark Registration		
L		New Cancel	
		Cancel	

2 Draw a special character. Create "III" to display on the screen.



3 From the [Draw (D)] menu, select [Base 1] and then select [Text (S)].



4 Place the text on the screen, and double-click it to open the [Text] dialog box.

💣 Text			×
	Direct Text	C Text Table	
A B C	Font Font Type Display Language Direction	Standard Font ASCII Horizontal	Text Attribute Normal
	Color Text Color Background Color Shadow Color	Transparent	Blink None 🔽
Line Spacing 0 🛃			
1			OK (<u>D)</u> Cancel

- 5 In the text input area, enter the [Input Code] as "0235", which corresponds to the text code (89h), while pressing the [Alt] key. *e* has been input. Click [OK].
 - "■ Input Code Table" (page 9-76)

EEEE	Background Color Shadow Color	Transparent	•	Blink Blink	None None	Y
ė						
				Ok	(<u>()</u>	Cancel



• The character placed on the drawing screen is ë. On the screen display of to the GP, "III" is displayed.

How to Display Characters External to the Character Code List

The marks drawn for the mark numbers from 8001 to 8128 are treated as the characters of the character codes from 80h to FFh. For example, 8001 corresponds to 80h, and 8002 to 81h. If you create marks for these mark numbers, they will be registered as external characters. By inputting the input code corresponding to a mark number on the base screen, the character displayed on the base screen is displayed as a registered external character on the GP.

Mark Number	Text Code Code Page 851	Input Code (Alt + Code)	Mark Number	Text Code Code Page 851	Input Code (Alt + Code)	Mark Number	Text Code Code Page 851	Input Code (Alt + Code)
8001	80h	0199	8049	B0h	0130	8097	E0h	0211
8002	81h	0252	8050	B1h	0131	8098	E1h	0223
8003	82h	0233	8051	B2h	0132	8099	E2h	0212
8004	83h	0226	8052	B3h	0133	8100	E3h	0210
8005	84h	0228	8053	B4h	0134	8101	E4h	0245
8006	85h	0224	8054	B5h	0193	8102	E5h	0213
8007	86h	0229	8055	B6h	0194	8103	E6h	0181
8008	87h	0231	8056	B7h	0192	8104	E7h	0254
8009	88h	0234	8057	B8h	0169	8105	E8h	0222
8010	89h	0235	8058	B9h	0135	8106	E9h	0218
8011	8Ah	0232	8059	BAh	0136	8107	EAh	0219
8012	8Bh	0239	8060	BBh	0137	8108	EBh	0217
8013	8Ch	0238	8061	BCh	0138	8109	ECh	0253
8014	8Dh	0236	8062	BDh	0162	8110	EDh	0221
8015	8Eh	0196	8063	BEh	0165	8111	EEh	0175
8016	8Fh	0197	8064	BFh	0139	8112	EFh	0180
8017	90h	0201	8065	C0h	0140	8113	F0h	0173
8018	91h	0230	8066	C1h	0141	8114	F1h	0177
8019	92h	0198	8067	C2h	0142	8115	F2h	0159
8020	93h	0244	8068	C3h	0143	8116	F3h	0190
8021	94h	0246	8069	C4h	0144	8117	F4h	0182
8022	95h	0242	8070	C5h	0145	8118	F5h	0167
8023	96h	0251	8071	C6h	0227	8119	F6h	0215
8024	97h	0249	8072	C7h	0195	8120	F7h	0184
8025	98h	0255	8073	C8h	0146	8121	F8h	0176
8026	99h	0214	8074	C9h	0147	8122	F9h	0168
8027	9Ah	0220	8075	CAh	0148	8123	FAh	0183
8028	9Bh	0248	8076	CBh	0149	8124	FBh	0185
8029	9Ch	0163	8077	CCh	0150	8125	FCh	0179
8030	9Dh	0216	8078	CDh	0151	8126	FDh	0178
8031	9Eh	0128	8079	CEh	0152	8127	FEh	0247
8032	9Fh	0129	8080	CFh	0164	8128	FFh	0160
8033	A0h	0225	8081	D0h	0240			
8034	A1h	0237	8082	D1h	0208			
8035	A2h	0243	8083	D2h	0202			
8036	A3h	0250	8084	D3h	0203			
8037	A4h	0241	8085	D4h	0200			
8038	A5h	0209	8086	D5h	0153			
8039	A6h	0170	8087	D6h	0205			
8040	A7h	0186	8088	D7h	0206			
8041	A8h	0191	8089	D8h	0207			
8042	A9h	0174	8090	D9h	0154			
8043	AAh	0172	8091	DAh	0155			
8044	ABh	0189	8092	DBh	0156			
8045	ACh	0188	8093	DCh	0157			
8046	ADh	0161	8094	DDh	0166			
8047	AEh	0171	8095	DEh	0204			
8048	AFh	0187	8096	DFh	0158			

Input Code Table

9.12 Settings Guide

9.12.1 Text Settings Guide

💰 Text				×
	Direct Text	C Text Tabl	le	
	Font Font Type	Standard Font	▼ Text Size 8 x 16 Pixels ▼	1
ABC	Display Language	ASCI	Text Attribute Normal	- -
ADC -	Direction	Horizontal	I Alignment	
	-Color			
	Text Color	7	 Blink None 	
	Background Color	Transparent	▼ Blink None ▼	
Line Spacing	Shadow Color	1	▼ Blink None ▼	
Text				
1				
			OK (Q) Cancel	

Setting	Description
Direct Text	Input text into the Input Text window and place it directly as fixed text.
Text Table	Use text from a previously saved Text Table.
	"15.4 Changing Languages (Multilanguage)" (page 15-16)
Font Type	When [Direct Text] is selected:
	Standard Font
	You can select a bitmap font from [Japanese], [ASCII], [Chinese
	(Traditional)], [Chinese (Simplified)], or [Korean].
	IMPORTANT
	 The standard font will become bitmap font. The display speed is faster than with other fonts, but characters may have jagged outlines or distorted if enlarged/reduced too much.
	• The Japanese and ASCII standard fonts are normally transferred to the GP. If you want to use Chinese (Simplified), Korean, or Chinese (Traditional) standard fonts, add the language in [System Settings] window, [Font] page.
	"6.2 Defining Stroke Font and Standard Font" (page 6-3)

Continued

Setting	Description	
Font Type	 Stroke Font You can select a vector font from [Japanese], [ASCII], [Chinese (Traditional)], [Chinese (Simplified)], [Korean], [Cyrillic], or [Thai]. IMPORTANT The standard font will become vector font. Characters are displayed with smooth outlines if enlarged, but the display speed is slower than with the standard font. ASCII stroke fonts are transferred to GP as a normal operation. If you want to use Japanese, Chinese (Simplified), Korean, Chinese (Traditional), Cyrillic, or Thai stroke fonts, add the language in [System Settings/Font]. "6.2 Defining Stroke Font and Standard Font" (page 6-3) Image Font Displays a Windows font as bitmap data. "6.3 Image Font" (page 6-15) When [Text Table] is selected: 	
	Select between Standard Font and Stroke Font.	
Display Language	Select a text display language from [Japanese], [ASCII], [Chinese (Traditional)], [Chinese (Simplified)], [Korean], [Cyrillic], or [Thai].	
Direction	Select from [Portrait] or [Landscape].	
Text Size	 Select the text size. Each font type has a different size range. Character Size Standard Font: 8 x 8 dot standard unit, 1 to 8 times (8 x 8 to 64 x 64 dot) 8 x 16 dot standard unit, 1 to 8 times (8 x 16 to 64 x 128 dot) Stroke Font: 6 to 127 Fixed Size You can select this option only when the [Standard Font] is selected. Select from [6 x 10 dots], [8 x 13 dots], or [13 x 23 dots]. MPORTANT When the [Fixed Size] is "6 x 10 dot", you cannot select [Bold] for the [Text Attribute]. 	
Text Attribute	Each font type has a different range of styles. Standard Font: Choose from [Standard], [Bold], [Shadow]. Stroke Font: Choose from [Standard], [Bold], [Outline].	
Alignment	When selecting "Vertical", align the center of text with single-byte and double-byte characters.	
Text Color	Set the display color for the text.	
Background Color	Set the background color for the text.	
Shadow Color	When the [Font Type] is [Standard Font] and the [Text Attribute] is [Shadow], choose a color for the shadow.	
Line Spacing	[Shadow], choose a color for the shadow. Set a value from 0 to 255. This is only applicable when the text is multiple lines. This option cannot be used when the [Font Type] is set to [Image Font].	

9.12.2 Preferences [Edit Screen] Setting Guide

On the [View (V)] menu, click [Preferences (O)]. The following dialog box appears. Select [Screen Edit Style] in the left window.

💰 Preferences		×
General	Settings for Screen Edit Style	
Screen Edit Style Script Toolbar Logic Edit Style Monitor Step Error Check	Action Show Guide on Move or Resize Image: Content of the state o	_
	✓ Snap to Grid Grid Size (pixels) Width 20	
	I Show Fixed Pin of Parts I Show Ruler I Show Grid	_
	Order Back Shape Grid Show Parts ID Show Address Show Touch Area Show Window Parts Screen	_
	OK (Q) Cancel	

Setti	ng	Description
Action	Guide Display on move or resize	This function is valid when aligning an object with a previously placed object. Guidelines are displayed at the designated points (the left edge and upper edge, etc.).
	Snap to Grid	The cursor position is determined from the grid size, you don't have to fine tune the position. ** "9.9 Creating a Screen from a Template" (page 9-57)
	Grid Size (pixels)	Designate the grid interval by the pixel.

Continued

Setti	na	Description
Setti	-	
	Show Fixed Pin of Parts	Designate whether or not to show the pin mark when an object is selected.
		 NOTE If you click the pin mark, the Move and Edit Object functions will be locked and the pin mark will be red.
Display	Show Ruler	Shows rulers at the top and the left side of the screen.
	Show Grid	Designate whether or not to show a grid.
	Show Parts ID	Designate whether or not to show the part ID number of the placed part.
	Show address	Designate whether or not to show the address set to the part.
	Show touch areas	 Designate whether or not to show a touch input valid area. MPORTANT Place each object so that the touch areas do not overlap each other.
	Show Window Parts Screen	Designate whether or not to show a window part screen.

9.12.3 Common (Mark Registration) Settings Guide

Creating Marks

💰 New Mark,	:/Open	×	1
• New	C Open		
Number			
Comment	Mark Registration		
		New Cancel	

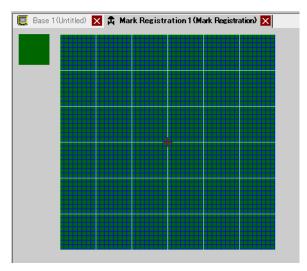
Setting	Description	
New	Creates a new [Mark Registration] screen.	
Open	Opens a previously created [Mark Registration] screen.	
Number	Set the [Mark Registration] screen Number to any value between 1 and 8,999.	
Comment	Enter a comment of up to 30 characters for the [Mark Registration] screen.	

Open

💰 New Mark/Open 🛛 🔀						
C New	Open					
Number	Comment	Number				
			Open	Cancel		

Se	etting	Description	
New		Creates a new [Mark Registration] screen.	
Open		Opens a previously created [Mark Registration] screen.	
Lis	st of marks	Displays the list of the [Mark Registration] screens in the project file.	
	Number	Displays the number of each [Mark Registration] screen.	
	Comment	Displays the comment for each [Mark Registration] screen.	
Ma	ark preview	Provides a preview display of the marks in the [Mark Registration] screen selected in the mark list.	
	Number	Displays the number of the [Mark Registration] screen selected in the mark list.	
	Comment	Displays the comment for the [Mark Registration] screen selected in the mark list.	

Mark Registration



Setting	Description	
Preview area	Provides a preview display of the mark's on-screen display size.	
Drawing area Used to draw marks using the drawing operations below, which		
	selected from the menu and toolbar.	
	-[Dot]	
	-[Line]	
	-[Rectangle] -[Circle/Oval] -[Filled Rectangle] -[Filled Circle/Ellipse]	
	-[Fill]	
	-[Text]	
	-[Draw Size]	
	The following items are displayed in the drawing area:	
	-Origin	
	-48 x 48 dot grid	
	-Quadrant (8 x 8 dot area) borders	
	-Dot ON, Dot OFF (Black), Dot OFF (Transparent)	

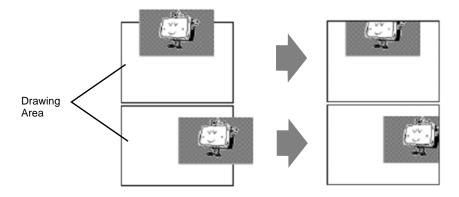
9.13 Restrictions

9.13.1 Restrictions for Drawing (Text)

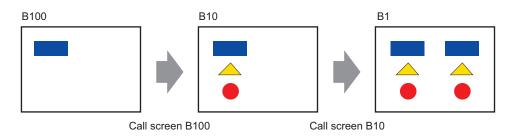
- When text is enlarged or rotated, the thickness of some letters may change.
- For characters with a character code (0x80 to 0xFF), the characters' shape will change due to differences in font between GP-Pro EX and the GP.

9.13.2 Restrictions for Pasting BMP/JPEG

- If you set the background color to the screen used for a call screen, the objects placed on the screen are not displayed on the GP.
- For a color data image screen, the data capacity is large, but the display speed on the GP is fast. For a monochrome data image screen, the display speed on the GP is somewhat slow, but the data capacity can be saved. Convert screens depending on the purpose.
- If an image screen is placed beyond the drawing area, the part that is outside the area is not displayed on the GP.



• Nesting (calling hierarchy) up to 10-layer (11-fold) is available. However, if the remaining memory in the PC decreases in operation, the display on the screen may be omitted. When transferred, the nested objects are normally displayed on the GP. For example, Double-layer (threefold) nesting.



9.13.3 Package Registration Restrictions

- Package register save is executed when you close the GP-Pro EX project.
- Up to 200 objects can be registered in one package. To register more than 200 objects, create a new package and register them in a new category.

9.13.4 Restrictions on Marks

- Acknowledge the registered external character after the screen data transmission on the display unit. The text corresponding to the input text code is displayed on GP-Pro EX.
- External characters can be registered only when the English standard font with a font size of 8 x 16 dot or larger is selected. 8 x 8 dot is not supported.
- To create an external character, draw it with single-byte characters (within 8 x 16 dot) with reference to the origin of the mark creating area (0,0).
- External characters cannot be rotated.
- When you print text in Alarm, external characters are not outputted. The results depending on printer types are as follows:
 For NEC PR201, EPSON ESC/P, HP Laser Jet, and Text ASCII: Direct code output of the text codes.
 For EPSON PM/Stylus:
 Image output of Code Page 850 characters
- If you were using the Character code (0x80 to 0xFF) of the Western standard fonts in a CSV file while registering external marks, and you want to display the marks in the Special Data Display [CSV Display] and [CSV Data Transmission] on GP, they will be converted to the external characters that were registered in the mark screen.

9.13.5 Restrictions for Screen Display

• When you reduce the screen edit area with the zoom function, some drawings may not display correctly, depending on the magnification.