Meistergram®

PRO 150x Series



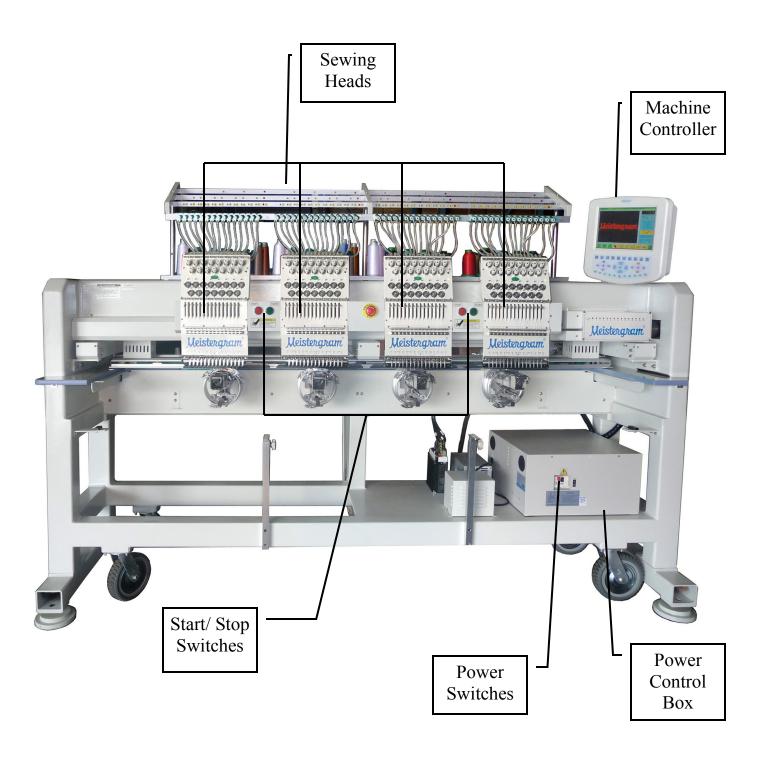
For models PRO1501, PRO1502, PRO1504, PRO1506 and PRO1508

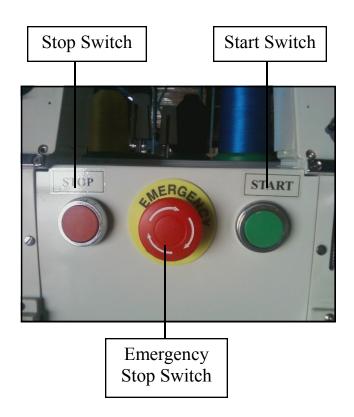
Quick Reference Guide

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Machine Overview





The Start and Stop Switches are used to begin and end sewing.
Additionally:

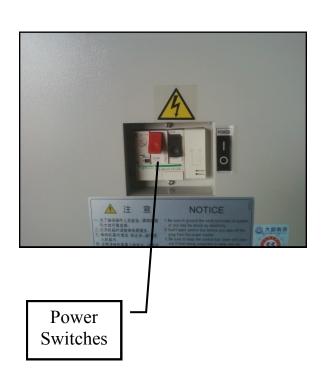
The Start switch if it is pressed and held at any time during sewing, will make the machine sew in Slow Speed.

The Stop switch is used to reverse or back up the machine for mending.

The Emergency Stop switch is used to cut power to the machine in case of an emergency. To restore power to the machine, the Emergency Stop switch must be unlocked by turning it clockwise. Then the machine may be powered up normally.

To turn on the machine, press in the black Power Switch.

To turn off the machine, press in the red Power Switch.

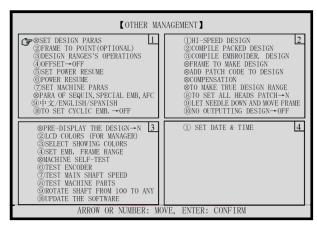


Initial Power Up

Upon initial power up of the machine, it is recommended that the Zero Point of the machine is reset. The Zero Point is an electronic reference point for the machine to base the frame movement calculations. It also allows the machine to recover accurately from a power failure, even if the frame is moved while the power is off.

To set the Zero Point on the machine, first be sure any hoops are off of the machine and the table is clear.

Then press the key. The Assistant Menu will appear.



Press 5 to select SET POWER RESUME/ ZERO POINT and press Enter. A prompt will appear on the bottom of the screen.

MANUALLY, SET "ZERO" POINT Y



Press the down Arrow Key to change the value to "N". Another prompt will appear.

ENTER: SET POWER RESUME AND FRAME

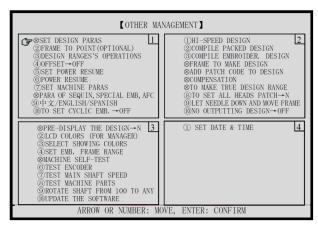
Press Enter to continue. The frame will move to the back right corner of the machine and then return to its original spot. Press the key to exit the Assistant Menu.

Power Resume

The machine can will return to the same stitch it left off in the event of a power failure. However, if the frame has been moved while the power was disconnected, the design placement may be off. To insure proper frame accuracy, use Power Resume any time power is restored to the machine.

To activate the Power Resume feature, first be sure any hoops are off of the machine and the table is clear.

Then press the key. The Assistant Menu will appear.

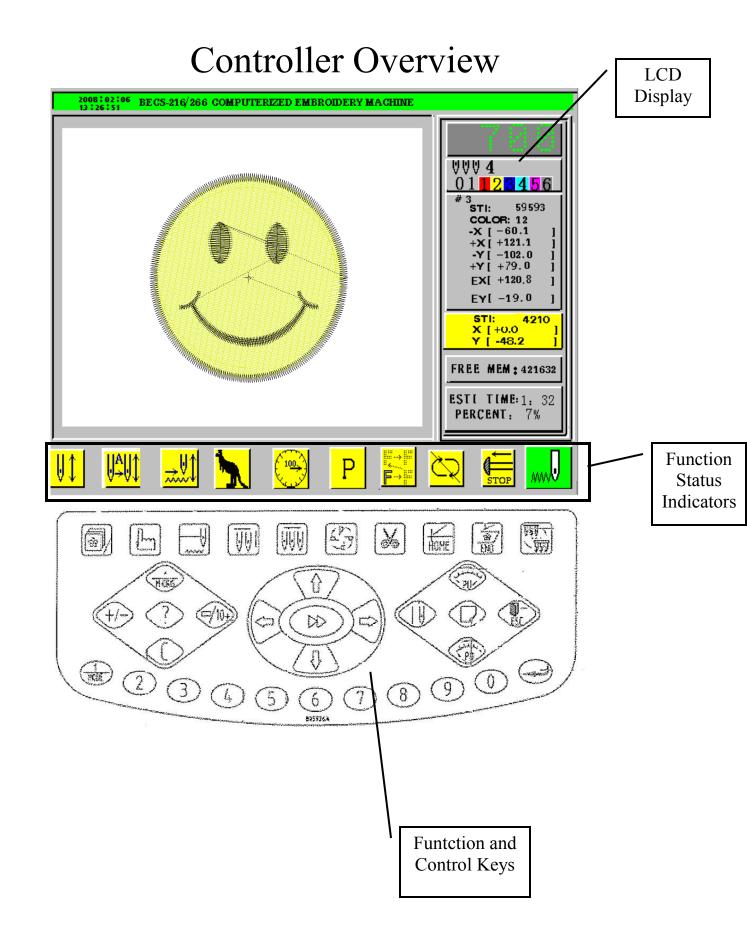


Press 6 to select POWER RESUME and then press Enter. A prompt will appear on the bottom of the screen.

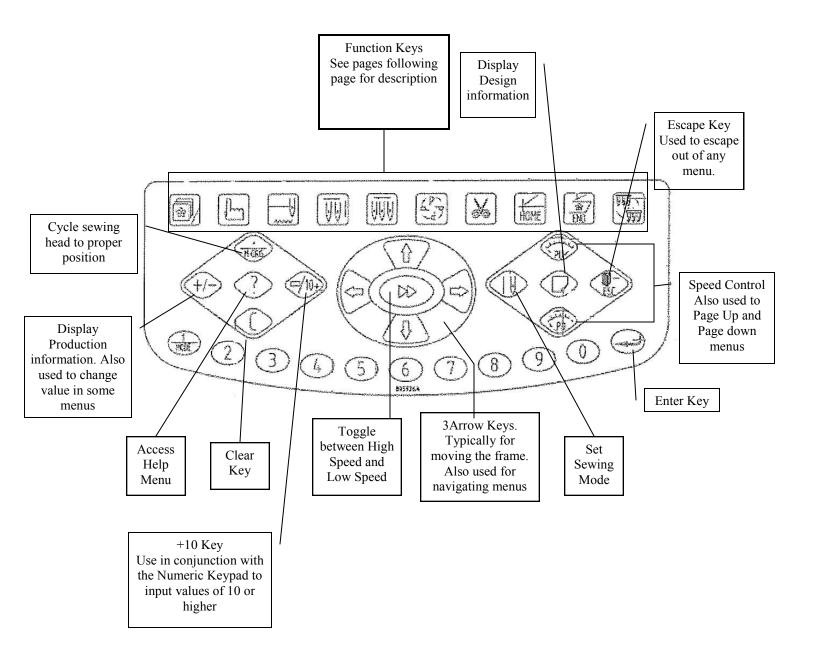
ENTER: SET POWER RESUME AND FRAME

Press Enter to continue. The frame will move to the back right corner of the machine and then return to its original position of the frame before the power was removed.

Press the key to exit the Assistant Menu.



Keypad Overview



Function Keys























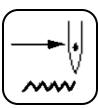
Design Management Menu



Return to last position (if frame was moved while the machine was stopped during sewing)



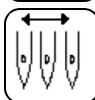
Assistant Menu



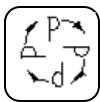
Float (or Idling) Design



Select Color Change Mode



Color Change Sequence



Rotate/ Mirror Design

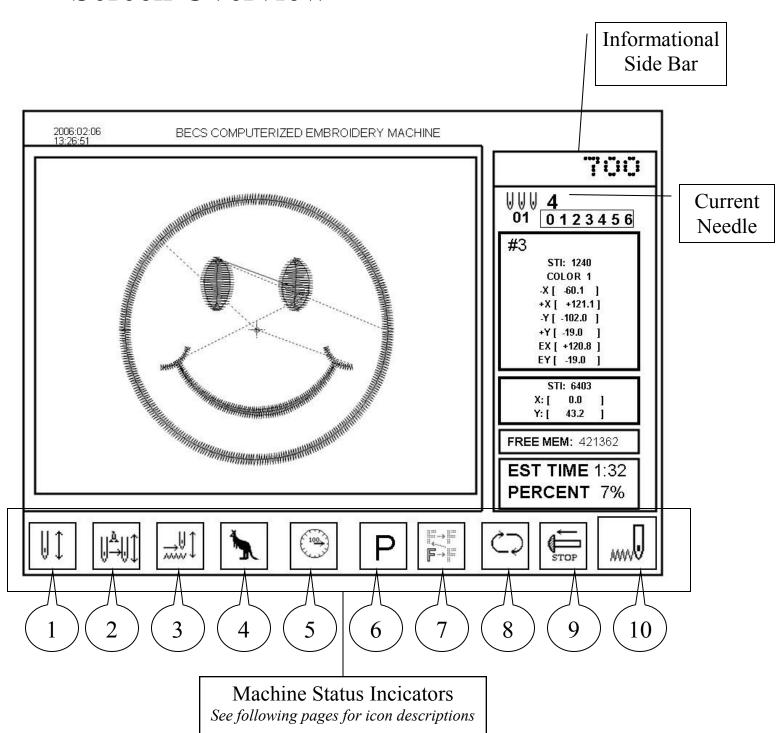


Trim Thread

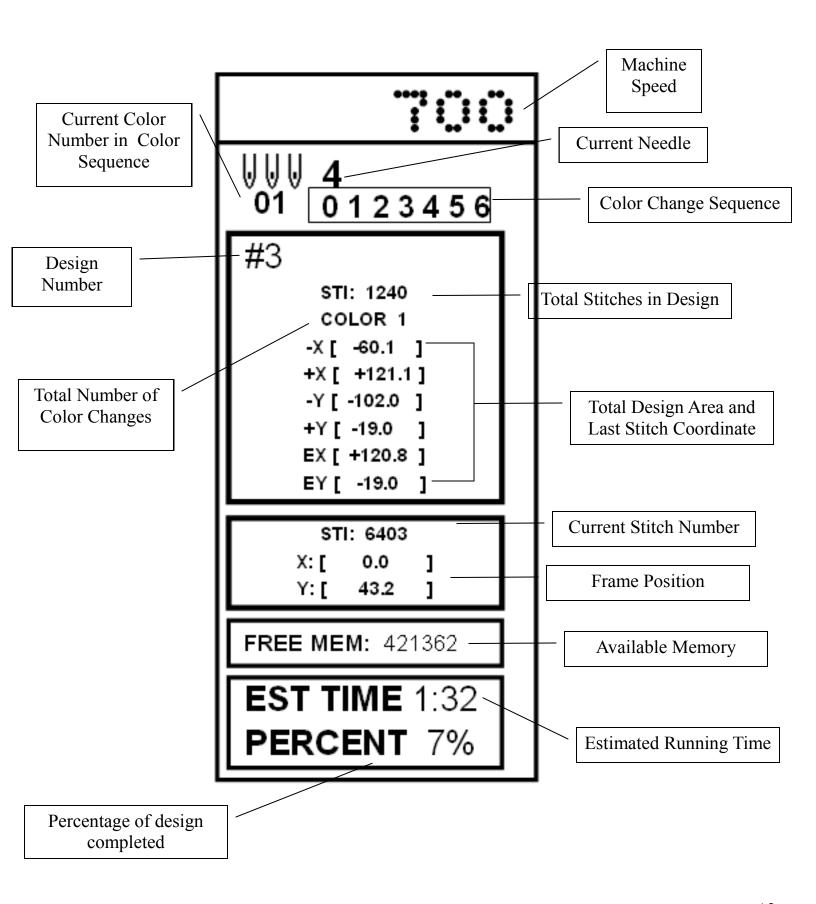


Return to Design Start Menu

Screen Overview



Informational Side Bar Overview



Machine Status Icons





Machine Embroidery Confirmation Status Icon

Machine is in Embroidery Mode (ready to sew)

If start button is pressed, the machine will begin sewing.



Machine is in Preparation Mode (not ready to sew)





Color Change Mode Icon

Manual Color Change Mode

Machine will stop at color changes and must be changed manually



Auto Color Change, Manual Start Mode

Machine changes colors automatically but stops after the color change and must be restarted manually



Auto Color Change, Auto Start Mode

Machine changes colors and restarts automatically





Float Mode Icon

Normal Sewing Mode



Low Speed Float Mode

Machine traces through the design without sewing at normal sewing speed



High Speed Float Mode

Design draws on screen when start button is pressed and stops with stop button. Frame then moves to the postion where the design stopped.





Manual Frame Move Speed

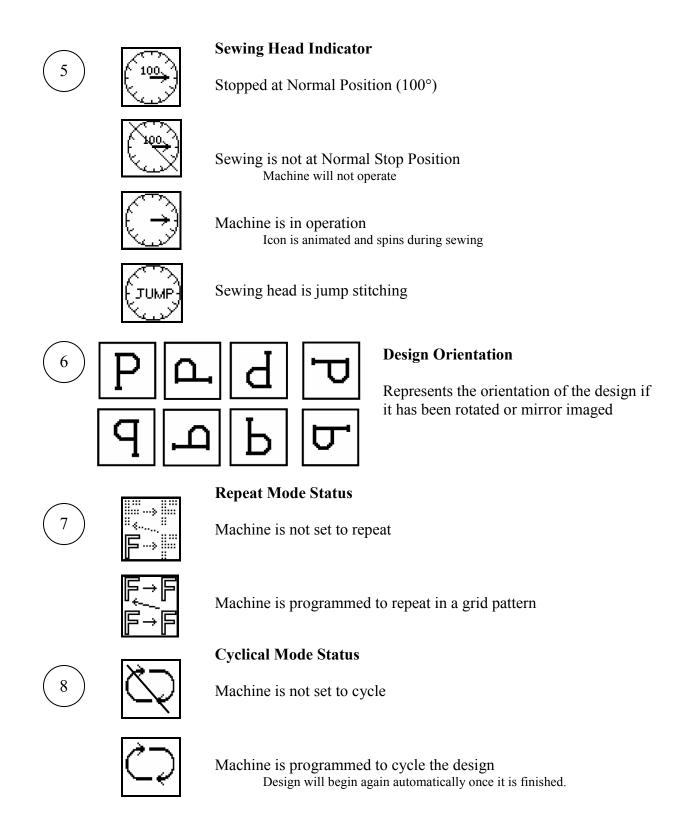
High Speed

Frame moves at high speed when arrow keys are pressed



Low Speed

Frame moves at lower speed when arrow keys are pressed



Machine Status Icons (contd.)





Machine Stopped Status

Stopped by Stop Switch



Thread is Broken



Machine is changing colors



End of the design





Running ModeStatus

Normal Embroidery

(Icon can change if other attachments are utilized such as cording, coiling, taping, sequins or boring devices)

Controller Functions

This section covers:

Sewing Mode
Idle (Float) Mode
Thread Trim Function
Head Rotate Function
Needle Selection
Arrow Keys
Design Rotate/ Mirror
Last Position
Return to Start
Color Change Mode

Sewing Mode Mode

Sewing mode sets the machine so that when the Start button is pressed, the machine will begin sewing. If the machine is out of Sewing Mode, the Start button is inactive. While in Sewing Mode, there are certain menu options that are inaccessible. (I.e. You cannot switch designs while sewing) Additionally, there are certain menu options that are only available while in Sewing Mode.

Menu options that are available are displayed in blue letters. Menu options that are inaccessible are displayed in white letters.

To access Sewing Mode, first select the desired design from the Design Management menu. (See section titled "Selecting Designs from Memory")

Press the button and then press the Enter key. A prompt will appear at the top of the screen

PRESS [HOME] KEY TO SAVE ORIGIN

If the key is pressed, the machine will save the starting position of the frame for this design. If the Enter key is pressed, it the start position will not be saved.

To continue, choose the desired option. Another prompt will appear at the top of the screen:

SAVE PARAMETERS N

Press Enter to continue or use the up and down arrow keys to save the color change and rotational information to memory.

The Sewing Mode Status will change to indicating the machine is in Sewing Mode.

To Exit Sewing Mode, press the **lit** key then press the Enter key.

The Sewing Mode Status will change to

Idle Mode

Idle mode, or Float, is the ability to move through the design without stitching. The Idle Mode button has three settings: Normal Embroidery, Low-Speed Float and High-Speed Float.

The display shows which mode is selected in the top right hand corner of the machine display. Idle mode is only active while in Sewing Mode mode.

To change the Float or Idle mode, press the button on the controller.

Each time the key is pressed, the Float Status Indicator will change to reflect the Float Mode

Is Normal embroidery mode. When this mode is selected the machine will sew normally when the Start button is pressed.

Is Low-Speed Float. When this mode is selected and the Start button is pressed, the frame will move through the design stitch by stitch but the sewing head will not engage. To stop the machine, press the Stop button.

Is High-Speed Float. When this mode is selected and the Start button is pressed, the display will begin drawing the design and the stitch count will increase. When the Stop button is pressed, the display and stitch count will stop at that stitch and the frame will move to the position that is indicated on the screen.

Thread Trim Function

The Thread Trim key will cause the machine to perform a thread trim at any time. Simply press

A prompt will appear:



- (✝ 1. TRIM TOP&BOT
 - 2. TRIM BOT

Press Enter and the machine will then perform a thread trim instantly

Head Rotate Function

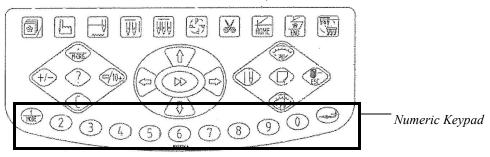
If for some reason the sewing head is in a the wrong position, the machine will not start. The Machine Shaft Position indicator will blink.

To correct this, or anytime the head needs to be cycled around to insure the proper positioning, press the M-Org key. Then Press Enter.

The sewing head will cycle around and stop at the proper position.

Needle Selection

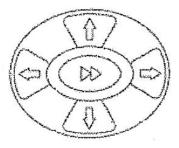
To change to a different needle, press the desired needle number from the Numeric Keypad. Then Needles are numbered from right to left. To select a needle number of 10 or higher, first press the **10**+ button and then the corresponding number to add to it to equal the desired needle number. (I.e. to go to needle 12, first press the **10**+ button and then the **2** button)



Arrow Keys

The arrow keys serve two functions: moving the pantograph frame and moving navigating through different menu options.

When used to move the frame, press the arrow button for the direction the frame should move. To make the frame move faster, first press the High Speed button in the center of the Keys. The indicator Frame Speed indicator will change from



Arrow Keys





When any menu is accessed, the up and down arrow keys are used to move up and down the menu list one item at a time. The

Design Rotation/ Mirror Image

To rotate or mirror image a design, first be sure the machine is out of sewing mode. (See section on Sewing mode for more information)

Press the key.

The "P" in the Rotational Status will change to indicate the selected rotation as it rotates in 90° increments as well as mirrored image options. The rotational options are as follows:

Normal	P	Mirrored	P
90°	Р	Mirrored 90°	р.
180°	В	Mirrored 180°	Ь
270°	י	Mirrored 270°	P

Continue to press the key until the desired rotational disposition is displayed.

Go to Last Position

The frame may be moved when the machine is stopped during sewing to allow for positioning of the work, such as appliqué. To reposition the frame to the last stitched position press the key. A prompt will appear at the top of the screen:

MOVE FRAME TO STOP POINT

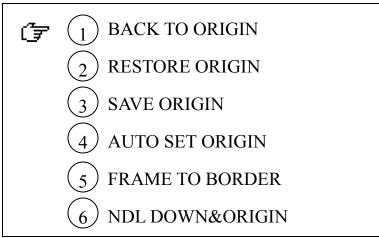
Press Enter to return to the last stitched position.



Return to Start

The Return to Start menu provides the ability to save the starting frame position (Origin) of any design and to return to the start of a design during sewing.

When the Return to Start button is pressed, the following menu appears on the screen:



Using either the Arrow Keys or the Numeric Keypad, select the desired option and press the Enter Key.

- BACK TO ORIGIN Sends the machine back to the start of the design when in Sewing Mode.
- 2 RESTORE ORIGIN Moves the frame to the saved starting point (Origin) of the current selected design.
- (3) SAVE ORIGIN Saves the current position of the frame for the selected design as the Start Point (Origin). The position is retained in memory for that particular design for later use.
- (4) AUTO SET ORIGIN Sets the Start Point as the center of the machine Frame Range. (Not Recommended)
- FRAME TO BORDER Traces a square around the outside perimeter of the design to insure the design will fit inside the hoop.
- NDL DOWN&ORIGIN Puts the needle down at the Start Point (Origin). Used for Yard Good Embroidery.

Color Change Mode

The Color Change Mode determines how the machine will handle color changes within a design while it is sewing. There are three modes for handling color changes: Manual, Automatic and Semi-Automatic.

To change the Color Change mode, press the button on the controller.

The Color Change Mode Status will change to correspond to the mode selected.

Is for Manual Color Change mode. When this is selected the machine will stop at every color change to allow you to enter the desired needle number and then press the Start button to restart the machine.

Is Semi-Automatic Color Change mode. When this is selected, the machine will change to the programmed needle number and then stop. To continue the design, press the Start button.

Is Automatic Color Change mode. When selected the machine will change to the programmed needle number and continue to sew automatically.

"How To"

This section covers:

Loading a design to sew from a USB Flash Drive
Selecting a Design to Sew
Changing Design Parameters
Setting the Color Sequence of a Design
Viewing a Design
Trace around the Perimeter of a design
Floating Through a Design without Sewing
Moving to any stitch in the design
Delete a design
Thread Detection and Back Up

Loading a design to sew from a USB Flash Drive

The machine has the ability to read embroidery designs directly from a USB Flash drive. The deisng s must be saved in DST format.

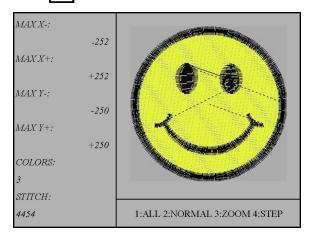
Insert the USB Flash Drive into the USB port on the side of the controller Press to enter the Design Management menu.

Press 3 on the numeric keypad and then the Enter Key

The Disk Input menu screen will be displayed.

[INPUT FROM FLOPPY DISK]			
⊘ 1	G001	DST	46551
2	DD	DST	3063
3	SMILEY	DST	5964
			FILE(S) 3
ARROW OR NUMBER: MOVE, ENTER CONFIRM			

Use the Arrow Keys to select the desired design. To see a preview of any design, press the help key. The Design Preview screen will appear.



Press to exit the Design Preview screen.

Press Enter to confirm selection the design.

A message will appear on the bottom of the screen that reads:

INPUT A NEW DESIGN ___

The machine automatically selects the first available memory location for the design. Press Enter to accept the selection or use the Arrow Keys to change the memory location number.

A window will appear with the message:

TO EXPAND SATIN? N

To load the design in its original form, press Enter (for more information on changing the Satin width, see section Changing Satin Width)

A window will appear with the message:



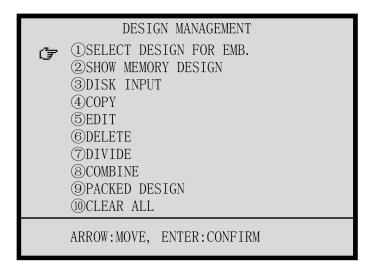
To read additional designs, use the Arrow Keys to change the value to "Y".

To finish reading designs, press Enter.

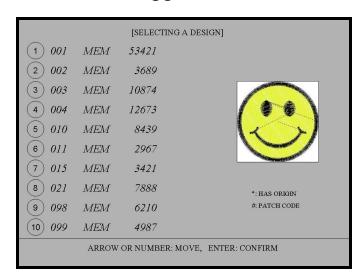
Selecting a Design to Sew

Before sewing, the proper design must be selected. Follow these steps to change which design will sew.

Press the key. The Design Management menu screen will appear:

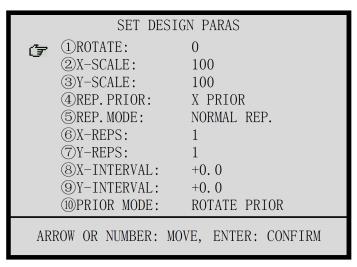


Press 1 for SELECT DESIGN FOR EMB. Then press Enter The Select Design menu screen appears.



Use the Arrow Keys to select the desired design and press Enter.

Once the design is selected, the Design Parameters menu is displayed.



If no changes are needed, press the Enter Key.

To change any of the settings, use the Arrow Keys to select the setting to change and press Enter.

Press the C key to clear the existing value. Input the new value using the Numeric Keypad.

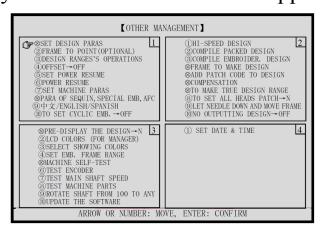
(For more information on the Design Parameters Settings, see the Design Parameter Settings Table)

Once all the settings are correct, press the key to exit the Design Parameters menu.

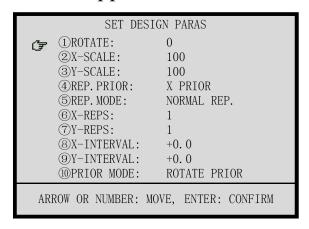
To begin sewing, press the we key and then Enter. Then follow the prompt on the screen. For more information on Sewing Mode, see the section entitled Sewing Mode.

Changing Design Parameters

The Design Parameters menu automatically appears when a design is selected for sewing. The menu may accessed any time by pressing the head key. The Assistant menu will appear.



Press 1 and Enter to access the Design Parameters menu. The Design Parameters menu will appear.



To change any of the settings, use the Arrow Keys to select the setting to change and press Enter.

Press the C key to clear the existing value. Input the new value using the Numeric Keypad. (See Design Parameters Settings on adjacent page for settings)

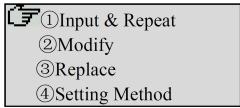
Once all the settings are correct, press the key to exit the Design Parameters menu.

Machine Parameters Settings

N o.	Name	Setting Range	Description
1	ROTATE	0°-89°	Allows you to rotate the design in 1°increment from 0°-89°. Key in the numeric angle value desired and press Enter. Use in conjunction with the Rotate/ Mirror key on the keypad to achieve full 360° rotation of any design.
2	X-SCALE	50%-200%	Allows you to expand or shrink the design for the X direction (left and right). The available scale range is 50%-200%. Once selected, use the numeric keypad to key in the percentage value and press Enter.
3	Y-SCALE	50%-200%	Allows you to expand or shrink the design for the Y direction (front to back). The available scale range is 50%-200%. Once selected, use the numeric keypad to key in the percentage value and press Enter.
4	REP. PRIOR	X , Y	The machine has the capability to create a matrix of repeated designs. This allows you to sew multiple runs of the same design in the same hoop. The Rep. Prior sets how it will repeat; by column or by rows. Select X to repeat by rows. Select Y to repeat by columns. To change this setting use the up and down arrow keys to toggle between the X and Y setting, then press Enter.
5	REP. MODE	NORMAL OR PARTIAL	If set to Normal, the designs will be repeated after the completion of the each design If set to Partial, the designs will be repeated after each color. (e.g. The first color will sew in each repeat and then the second color, etc.)
6	X-REPS	1-99	Use this to set how many times the design will repeat in the X direction (number per row). If the design is to be sewn normally, the value should remain at 1.
7	Y-REPS	1-99	Use this to set how many times the design will repeat in the Y direction (number per column). If the design is to be sewn normally, the value should remain at 1.
8	X-INTERVAL	0-999	Sets the distance of the repeated designs are apart in the X direction (left and right) in millimeters. This is the distance is from the last stitch of the first design to the first stitch of the next design.
9	Y-INTERVAL	0-999	Sets the distance of the repeated designs are apart in the Y direction (front to back) in millimeters. This is the distance is from the last stitch of the first design to the first stitch of the next design.
	PRIOR MODE	ROTATE or SCALE	Determines which function will be performed first when design Scaling and Rotation are both used.

Setting the Color Sequence of a Design

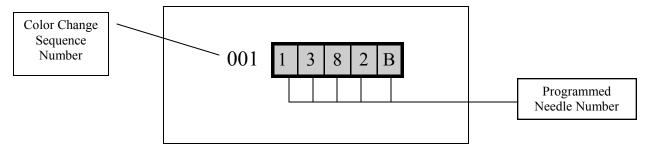
Press the key. The following menu will appear:



Use the Arrow Keys to select the desired option and then press the Enter Key.

1 Input & Repeat

Use this option for inputting the colors for the first time. The Color Input screen is displayed.



Using the Numeric Keypad, enter the needle numbers in the order they are to sew in the design. For needles 10 and higher use the +10 key. (e.g. to enter needle 12 press +10 and then 2). When finished, press the Enter Key to set the color changes.

2 Modify

Used to modify the existing color sequence. Using the arrow keys, highlight the needle number to be changed. When all the colors have been modified, press the Enter Key to set the color changes.

3 Replace

Used to Replace a specific needle number in the color change sequence with a different one. When selected, the following menu will appear:

OLD NDL: <u>5</u> NEW NDL: <u>8</u>

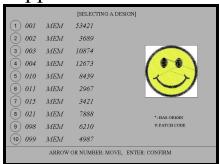
Input the needle number to be replaced and press Enter. Then enter the new needle number and press Enter. Every time the original needle number is found in the color sequence, it will be replaced with the new needle number.

Viewing a Design

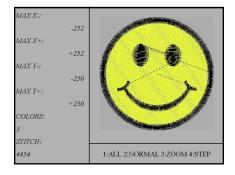
Press to enter the Design Management menu.



Press 3 and Enter to select SHOW MEMORY DESIGN. The design selection Screen will appear.



Use the Arrow keys to select the desired design, then press Enter. The Design Preview Screen will appear.



The Design Preview screen displays a large image of the design, the total size of the design, the number of colors and stitches.

Press 3 and Enter to view a zoomed in view of the design. Press 4 and Enter to redraw the design slowly on the screen.

To exit the Design Preview screen, press the key

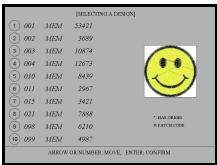


Deleting a Design

Press to enter the Design Management menu.



Press 3 and Enter to select DELETE. The design selection Screen will appear.



Use the Arrow keys to select the desired design. Press Enter to confirm the deletion of the design. The selected design will be deleted immediately.

To exit the Design Preview screen, press the key

Tracing around the Perimeter of the Design

To insure the design will fit into the sewing hoop, it is recommended that a Frame Range Trace is performed.

Before entering Sewing Mode, press the wey. The Design Start Menu will appear.

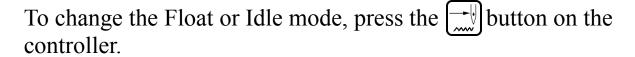


Press 5 and Enter to select FRAME TO BORDER. A prompt will appear at the top of the screen:

FRAME ALONG DESIGN RANGE!

Press Enter again. The machine will outline a box around the outer perimeter of the design.

Floating Through the design without Sewing



Each time the key is pressed, the Float Status Indicator will change to reflect the Float Mode

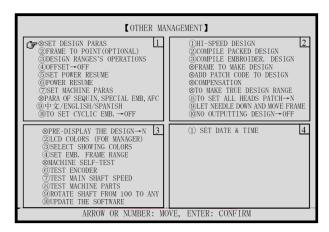
Is Normal embroidery mode. When this mode is selected the machine will sew normally when the Start button is pressed.

Is Low-Speed Float. When this mode is selected and the Start button is pressed, the frame will move through the design stitch by stitch but the sewing head will not engage. To stop the machine, press the Stop button.

Is High-Speed Float. When this mode is selected and the Start button is pressed, the display will begin drawing the design and the stitch count will increase. When the Stop button is pressed, the display and stitch count will stop at that stitch and the frame will move to the position that is indicated on the screen.

Moving to Any Stitch in a Design

Press the key. The Assistant Menu screen will appear.



Press 2 and Enter to access the Frame to Point menu.



The Frame to Point menu provides several options to move to various places in the design. Press the use the arrow keys for the desired selection and press Enter.

(1) FORWARD STI. - When this is selected, a prompt will appear on the bottom of the screen

GOTO STITCH: __

Using the Numeric Keypad, enter the number of stitches to move forward from the current stitch in the design and Enter. Then press the Start switch.

The display will begin drawing the design on the screen up to the selected stitch (current stitch + number of stitches to move forward) The machine may be restarted once the screen finishes drawing.

- 2 BACKWARD STI. This option works the same way as the Forward Stitch option except the stitch count is subtracted from the current stitch count. The stitch count will go backward by the amount entered.
- 3 NEXT COLOR The machine will move to the Color Change in the design.
- 4 LAST COLOR The machine will move to the previous Color Change in the design.
- 5 NEXT STOP The machine will move to the next Stop Function in the design.
- 6 LAST STOP The machine will move to the previous Stop Function in the design.

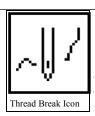
Machine Functions

This section covers:

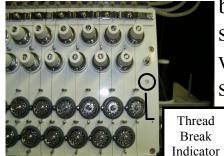
Thread Detection
Back Up

Thread Break Detection

The machine is equipped with automatic thread break indication. If either the top or the bobbin thread breaks during sewing, the machine will stop and the Thread Break Indicator light will flash red. The controller will also beep and display the Thread Break icon for the Stop Status.



The design may be backed up further by pressing and holding the Stop



button. If the Stop button is held for more than 5 seconds, the button can be released and the machine will continue to back up. Press the button again to stop the machine from backing up further.

Once repairs have been made, the machine may be re-started by pressing the Start button.

The machine will only sew on the head that detected the thread break until it reaches the stitch where the thread break was detected. Then the other sewing head(s) will automatically join in sewing.

Machine Back Up

Any head may be backed up at any time by pressing and holding the



Stop button to back up and then pushing the Thread Break Detector Switch up momentarily on any head that is to be backed up.

The Thread Break Indicator will turn red indicating that the head will be sew during mending.

The machine will only sew on the head(s)
that have been selected until it reaches the stitch where the design had previously stopped. Then the other sewing head(s) will automatically join in sewing.

Thread Break