



Training:

HAPPY HCH-701 Journey Operations & Maintenance

Chapter 2: CONTROL PANEL

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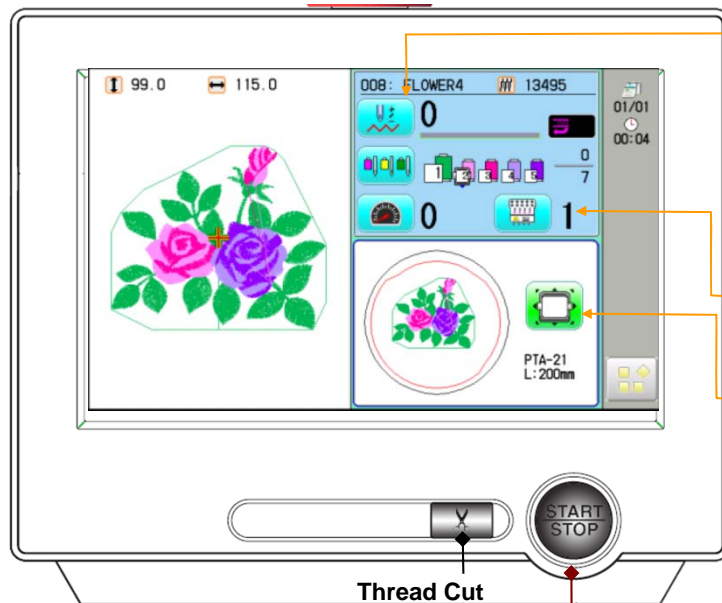
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Sewing Controls

Basic Sewing Controls

On this page, learn the function of the important sewing controls.



Thread Cut

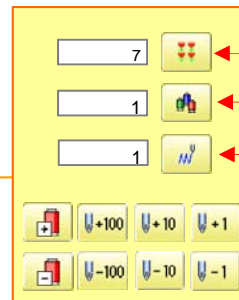
Cuts thread when machine is stopped. Also useful for testing shaft rotation or resetting the needle to the up position.

START/STOP

Starts and stops sewing. Lit in green when ready to sew. Lit in red following an error message.

Sewing Position Control

Jump to any position in the design by:



by piece #

by color block#

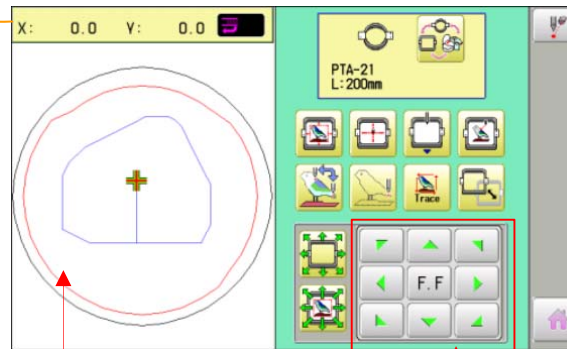
by stitch#.

Jog forward/back by 1, 10, 100 stitches or by color block



Needle Selector

Use to move the head to a different needle, and also to toggle jump/drive mode.



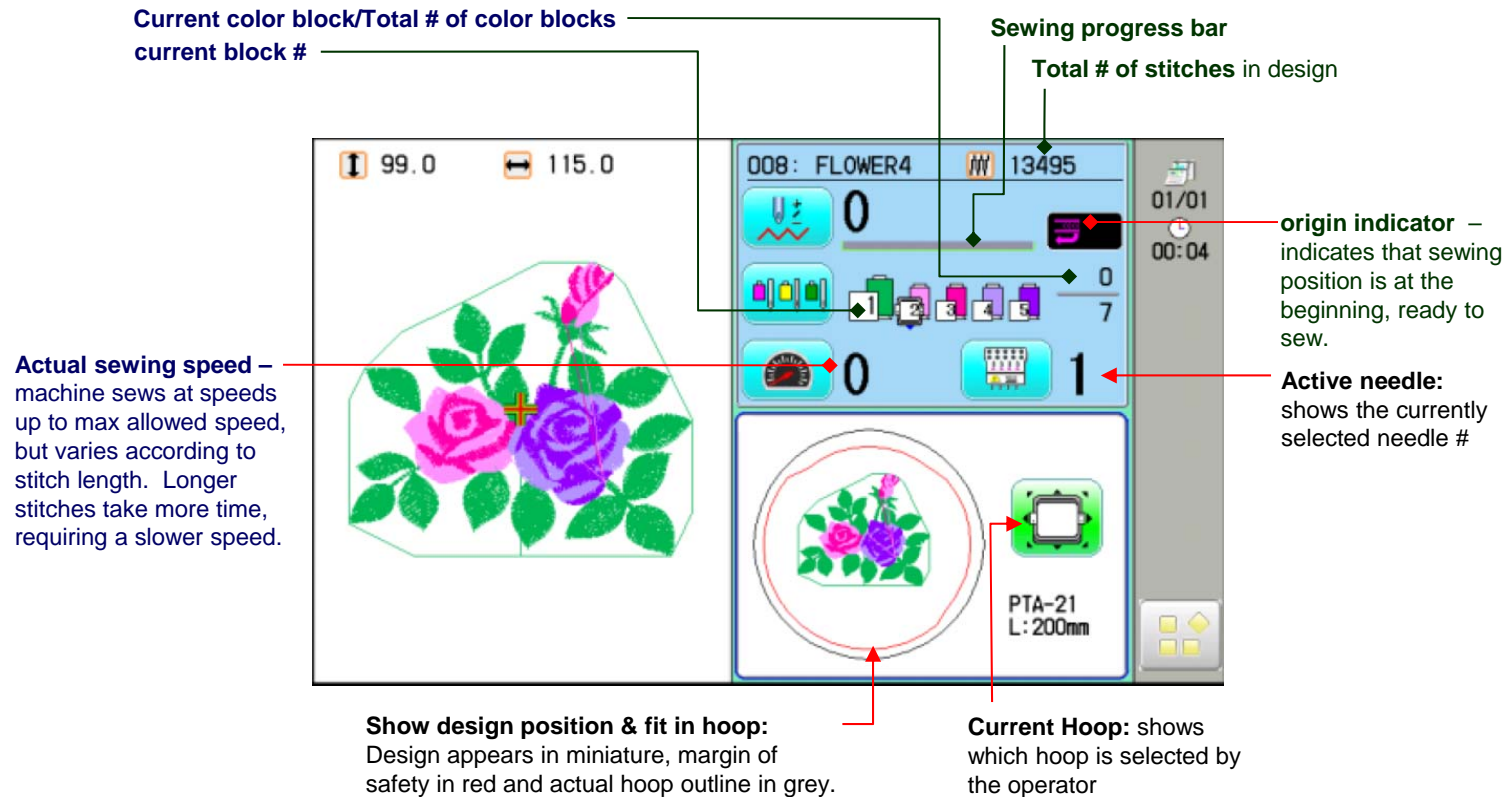
Select hoop / adjust sewing position. Move the sewing arms in this sub-screen.

Move the sewing arm using these buttons. Design position moves here as a result.

Main Screen Information

Information Display on the main Drive screen

This screen shows information about the design, its position and fit, and current sewing status



Learning the Control Panel by Task

Loading & Setting Up Designs

Load the Design into the machine using a USB thumb drive. Follow these steps:

1. Insert a **USB thumb drive** with your design saved onto it into the machine.
2. Go to the **Main Menu** and choose **READ** as shown below. Select the USB drive option.
3. Choose a **design** from the list; it will load into memory and become the active design.

Insert thumb drive here

Press **READ** & choose the **USB** icon

Main menu button

Press a design name to load it. When finished, return to the main screen pressing **ESC**.

Set design colors next. Follow the steps shown below:

1. Go to the **Needle Bar Selection Screen** from the main (Drive) screen as shown below:
2. Set the design colors as shown below.

Press to go to Needle Bar Selection

This shows that the design has 7 color sections, and that the 2nd out of 7 color section is selected (flashing in blue). The "0"s next to each color cone here mean no color has been selected yet, while the first color section has needle 1 selected.

Choose the needle number/ color cone for the selected color selection. On choosing, the machine moves to the next color section automatically.

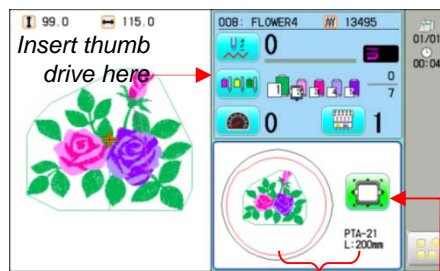
When finished, press to go to main menu.

Learning the Control Panel by Task

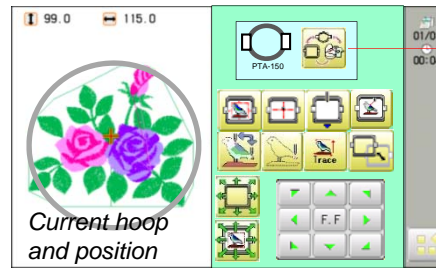
Selecting a Hoop & Positioning the Design

After loading the design and setting colors, you're ready to select a hoop and/or position the design in the hoop if needed.

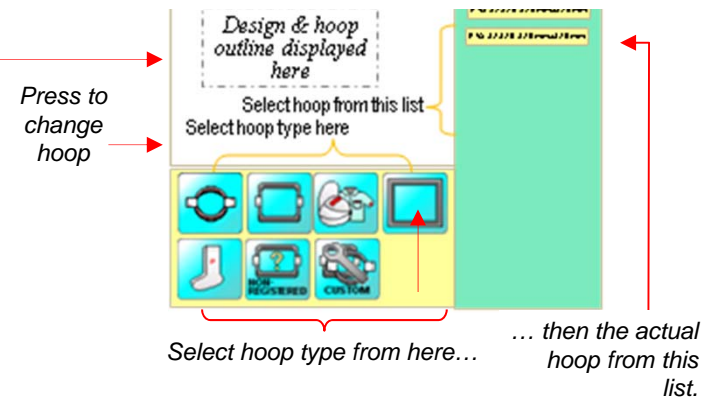
1. Press the **Frame Move** button shown below to change hoop or position.
2. Change hoop or design position in this screen as shown below.
3. Choose a hoop from this screen.



Current hoop and position
To change hoop or position, press this.



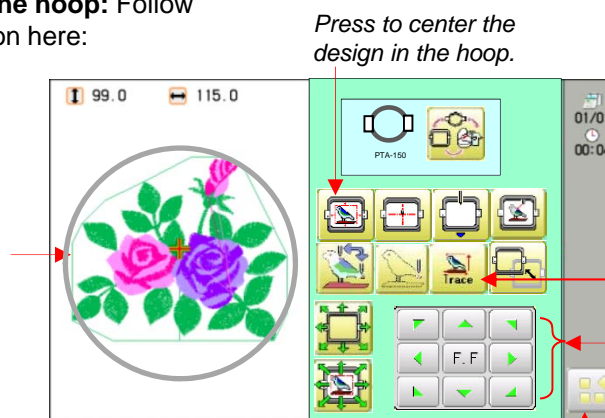
Current hoop and position



Select hoop type from here... then the actual hoop from this list.

4. **Positioning the design in the hoop:** Follow the directions in the illustration here:

Current hoop position: The animated image on the left side will move as you adjust the hoop position. Keep the design outline (in blue) inside the inner safety limit of the hoop (in red). The hoop outline itself is shown in grey.



When finished, press ESC to return to the sewing screen.


5. **Trace the Design:** Press Trace to show the trace control panel, then use the controls to play, pause, step backwards through a trace. As the arm moves, the presser foot will point to where the edges of the design will fall in the hoop.



Use these arrow keys to position the design manually. Lock the FF (fast) movement mode for faster movement (button turns blue). The design will move in the image on the left, showing the actual sewing position in the hoop.

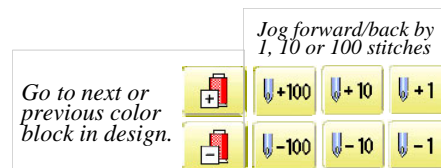
Learning the Control Panel by Task

Sewing Out a Design

Once set up, simply press  to begin sewing. While the machine should do this automatically by itself, take the opportunity to fine tune and/or troubleshoot, especially to make the next sewing run more trouble-free. Learn how to recover from basic sewing interruptions. (More thorough steps for this in Chapter 4.)

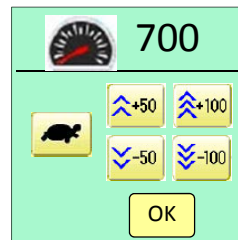
Learn how to recover from sewing interruptions:

- Basic thread breaks: the machine backs up several stitches on detection. Use the +1, -1 buttons to set sewing position.
- Learn how to see the position of the last sewn stitch.
- Learn how to adjust sewing position in mid-design.



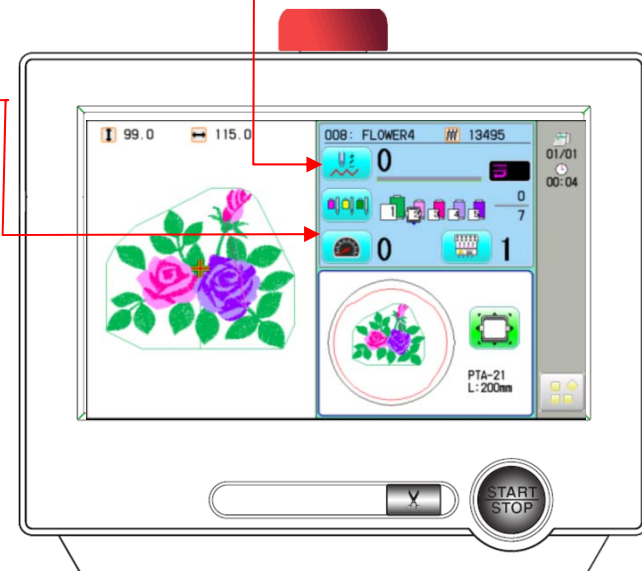
Check/adjust speed:

- Start with a safe, medium speed and increase with your comfort level. Higher speed = more production, profit but more risk.
- Adjust based on noise/vibration levels, find the “sweet” spot for your setup.
- Higher speeds are practical with proper machine adjustment, environment setup, good thread, digitizing, hooping, etc.



Check for quality and sewing problems:

- Take notice of thread breaks/frequency, where they occur, etc
- Watch machine behavior carefully – noises, movements, vibrations, etc.
- Check the sewing quality -i.e. digitizing quality, appearance of stitch quality and sewing efficiency.



Managing Designs in the Pattern screen

Your machine can hold up to 40 million stitches or 99 designs in memory. The Pattern screen is used to manage the designs, letting you choose, group (into 5 subfolders), delete, lock, erase, and other management functions.

Accessing the Pattern Screen: From the sewing (Drive) screen, press the MENU button at the bottom right corner, then press PATTERN to call up the screen shown below on the right.

The screenshot shows the 'Pattern' screen with a grid of icons for 'READ', 'PATTERN', 'NEEDLE', 'FRAME', 'SETTING', 'OPTION', 'LETTER', 'QUEUE', 'OTHER', 'REPORT', and 'GUIDE'. A red arrow points from the 'PATTERN' icon to the main 'Select Embroidery Design' screen.

The main screen displays five groups: Group Main [37], Group 1 [1], Group 2 [0], Group 3 [0], and Group 4 [0]. Below the groups is a grid of design thumbnails: MIAMI BT6, MIAMI BT6, FD02, MDCCLMMP, MIAMI BT6, 0006959, and DRAGON. The 'DRAGON' design is highlighted with a red border. To the right of the thumbnails is a list of details for the selected design: 037 DRAGON, 52124, 12, 246.4, and 265.4. A vertical toolbar on the right side of the screen contains several icons with corresponding labels:

- send to usb drive
- send to subfolder
- name subfolder
- Sort method
- thread break report

Managing thread & design color in the Needle screen

The needle screen performs additional related functions other than programming color cones/needle numbers for the selected design, as shown below.

Accessing the Needle Screen: From the sewing (Drive) screen, press the MENU button at the bottom right corner, then press NEEDLE to call up the screen shown below on the right.

The diagram illustrates the process of accessing the Needle screen. It starts with a main menu containing options like READ, PATTERN, NEEDLE, FRAME, SETTING, OPTION, LETTER, QUEUE, OTHER, REPORT, and GUIDE. An arrow points from the NEEDLE option to the Needle screen. The Needle screen features a large design area showing a yellow rose and a grey silhouette of the same rose. To the right of the design is a control panel with a grid of buttons numbered 1 to 15, each with a colored bar. Above the grid are buttons for '1', '0', '0', '0', '0'. Below the grid are buttons for 'Set frame out' and 'STOP'. To the right of the control panel is a vertical toolbar with icons for 'view design', 'repeat sequence', 'migrate thread cone', and 'program cone colors'.

- view design
- repeat sequence
- migrate thread cone
- program cone colors

Set frame out

Set mid-sewing stops for applique etc

Important design adjustments in the Setting screen

You can make useful adjustments to the selected design in the Setting screen.

Accessing the Setting Screen: From the sewing (Drive) screen, press the MENU button at the bottom right corner, then press SETTING to call up the screen shown below on the right.

- Resize width (X)
- Resize height (Y)
- Adjust satin width (mm)
- Rotate by degree
- Rotate/flip in 90 deg. increments